

THE CHEMIST & DRUGGIST, MARCH 7, 1925.



TELEPHONE: CENTRAL 3617
TELEGRAMS: "CHEMICUS,
CANNON, LONDON" (2 Words)

No. 2354.

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

MARCH 7, 1925.

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Vol. CII.

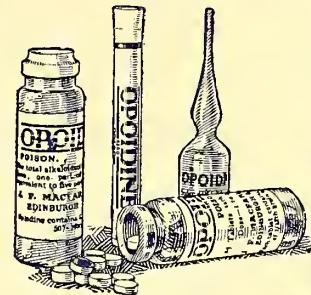
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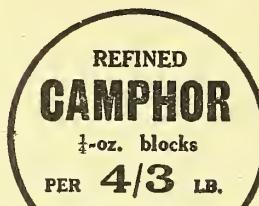
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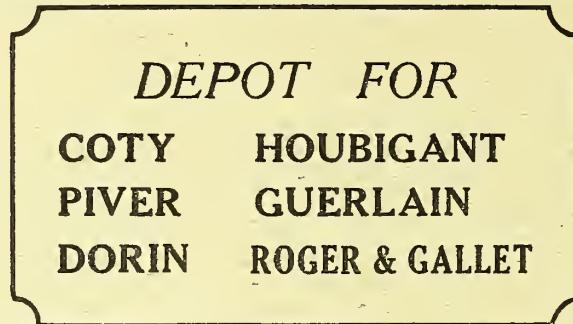
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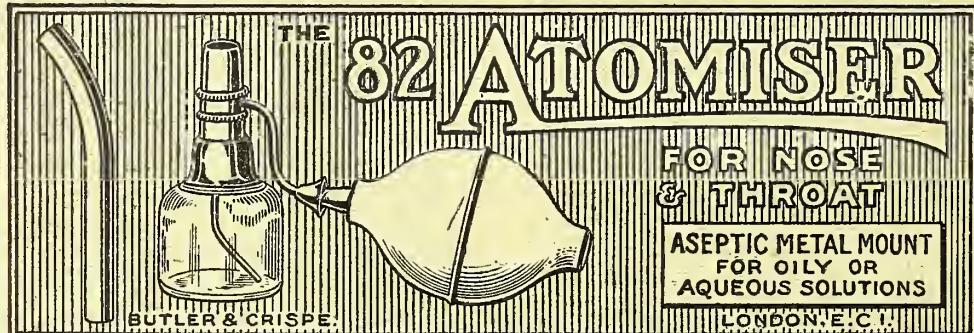
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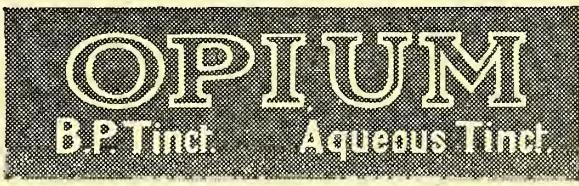
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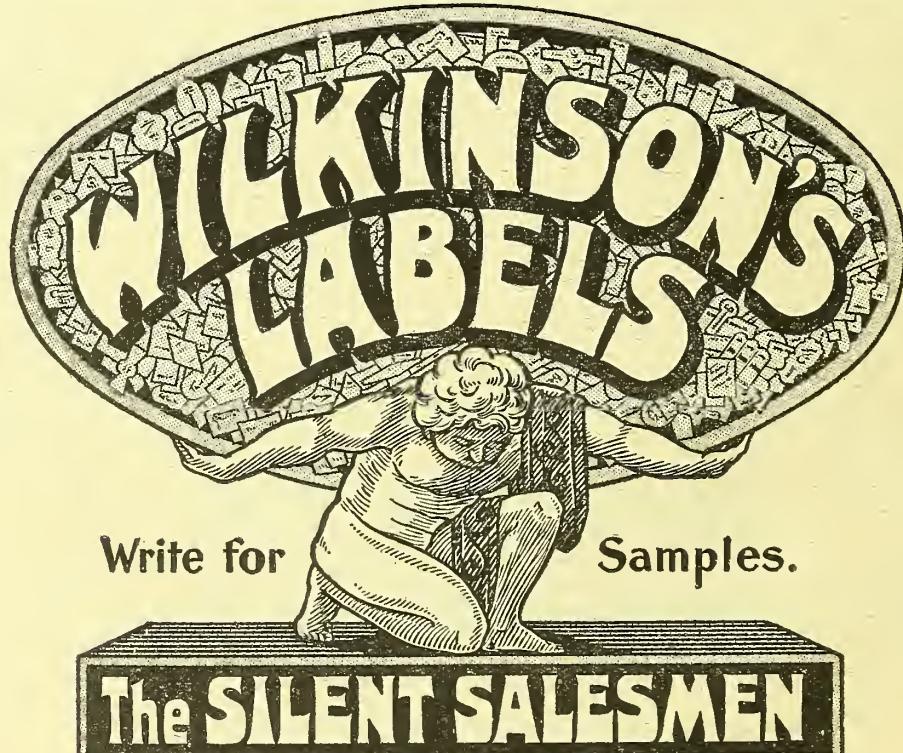
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**They do good—
They taste good—
They show a good profit**

**DUBLIN
EXHIBITION**
We offer a cordial invitation to our friends to visit us at the above Exhibition
**STAND 22
HALL "A"**

Send your order *now*, which will receive our prompt attention, for the 60 lbs. parcel, with which we send a free 4 lbs. bonus, cartons, decorated tins, and a novel screen display which sells by night as well as by day.

CUPAL LTD., BLACKBURN

A Real Good Tip—

ACH of the series of four racing drawings by a famous French Artist will appear as a full page advertisement for Gibbs Cold Cream Shaving Soap, in all the leading illustrated papers.

This attractive series sounds an entirely new note in British advertising. Interest in it will be wide-spread. It can be depended upon to stimulate a greater demand than ever for Gibbs Cold Cream Shaving Soap and Gibbs Dentifrice.



invest your money on

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Preparations*



This beautiful folding screen, lithographed in 5 colours, measures $31\frac{1}{4}'' \times 11''$ deep. It will create extraordinary interest in your window. If you have not yet received your copy of this screen let us know, when we will send you one by return.

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City Soap Works, LONDON, E.1



IF it is good, honest soap you want, hand made by craftsmen with years of experience to guide them, we shall be glad to hear from you.

Soap that lathers profusely, soap that retains its perfume, soap that is not water-logged is our idea of good soap.

BATH BOWLS

Wooden bowls filled with delightful soap in any of these perfumes :

White Rose, Brown Windsor, Rose, Honey, Violet, Verbena or Glycerine and Cucumber.

7" 8" 9" 10" Bowls
60/- 72/- 90/- 102/- per doz.

GLYMIEL SOAP

Transparent and impregnated with Glymiel Jelly. A most refreshing soap, highly beneficial to the skin and complexion.

1/- Tablets, 8/- doz.
Trial Tablets 36 in box, 6/7 box.

PERFUMED PUMICE SOAP

Far better than Pumice Stone for removing stains from the hands. Ideal for motorists & gardeners.

3d. squares, 2/1 doz.
5 oz. (approx.) Tablets 5/- doz.

OSBORNE, BAUER & CHEESEMAN

Creators of the Purest
Hand Made Soaps

Sole Wholesale Agents :



Maw's Page



"MERITOR" Brushes are Guaranteed
 "MERITOR" Brushes are Well Advertised
 "MERITOR" Brushes are Well Packed
 "MERITOR" Brushes are the Chemist's Own
 "MERITOR" Brushes yield a profit of

50% on cost.

It pays to put your best efforts into selling "Meritor" whenever you are asked for toilet brushes.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

Telephone:
No. (New)
City
7891-3

Telegrams:
Eleven
Cent
London

TRADE MARK

Cables:
Eleven
London

Code:
A.B.C.
4th & 5th
Edition

CARON PERFUMES

THE RAGE OF FASHIONABLE PARIS,

Are fast gaining popularity in England with all Ladies of refined and discriminating taste.



LE N'AIMEZ QUE MOI.

	Retail.	W'sale.
Extract..	.. .. each 22/-	16/6
Powder..	.. .. " 6/3	4/9

LE TABAC BLOND.

	Retail.	W'sale.
Extract..	.. .. each 27/6	20/6
Powder..	.. .. " 14/6	11/-

INFINI.

	Retail.	W'sale.
Extract..	.. .. each 23/-	17/6
Powder..	.. .. " 6/-	4/6

LE NARCISSE NOIR.

	Retail.	W'sale.
Extract..	.. .. each 24/-	18/-
Powder..	.. .. " 9/-	6/9
Coffret (2 Extracts 1 Powder)	.. .. 84/-	65/-
Eau de Toilette	.. .. 32/-	24/-
Lotion ..	.. .. 27/-	20/-

LE NARCISSE BLANC.

	Retail.	W'sale.
Extract..	.. .. each 17/6	13/-
Powder..	.. .. " 5/-	3/9

NUIT DE NOEL.

(CHRISTMAS EVE.)

The latest Paris Novelty and favourite Perfume of the French Elite. **33/-** each.
Retails at **42/-** each.

Sole Distributing Agents for
Great Britain and Ireland:

OSBORNE, GARRETT & CO.,
Ltd.,

LONDON - 51-54 Frith Street, W.1
BIRMINGHAM - - 10 & 11 Temple Street
GLASGOW - - - - 14 Bothwell Street

parfums Caron
la que de la Sain Paris

EASTERTIDE!

Your Customers seeking something fresh and novel in the form of Easter gifts will be charmed with this dainty Surprise Egg.

It is the most natural looking thing in the world!

People tell us the finely decorated opal glass cup alone is worth the money.

Midgley's Easter Soap Eggs are essentially a high class line selling in the best pharmacies.

Complete
with
Novelty
Egg Cup.

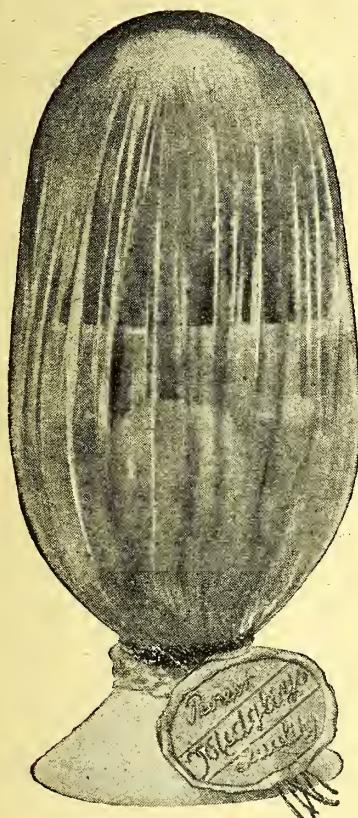
4/6

Gross
Lots
52/-
to a/c.

per dozen.

*Hand Painted Showcard with
every order for 1 gross upwards.*

EVANS SONS LESCHER & WEBB Ltd.
LIVERPOOL LONDON



ACTUAL SIZE.



Here is a companion Cabinet to the Capsol Cabinet—and a fitting companion too. Put this charming display on your counter and it will start at once selling an extra sixpence worth to nearly every lady who comes into your establishment. Now, this is just the kind of line you have been waiting for—a real turnover assisting line—and the women-folk are waiting for it too. Can we send a free sample along for your wife to try? Ask her what shade she wants.



This line makes an Instant Appeal to any Chemist

To begin with it is interesting chemically! With Wonder Dye a woman can dye a silk blouse and leave the (cotton) lace trimmings white. The explanation is that Wonder Dye will dye any fabric of animal origin, but will not affect one of vegetable origin. It will dye Silks, Furs, Feathers, *but not cotton or linen*.

Now an article that performs unusual functions creates an unusual amount of interest, and the very fact of having this line in stock will so please your women customers that it will do your trade good.

Then again this display cabinet will sell the goods for you. On the back of every tray we give directions on the matching and use of different colours, thus enabling your assistants to talk to women in an informed manner. Nothing helps sales so much as the ability to converse intelligently about the uses of a product.

THIS IS A SIXPENNY LINE

and shows a very liberal margin—Less 33½%. Cabinet given free with one gross, and if you send cheque at time of ordering we'll give you a further 5% and give our traveller the same commission he would have earned if he personally had picked up the order. The nett cash cost to you is, therefore, 72s. less 33½%, less 5%, viz., £2 5s. 8d.

We will put you a bunch of 8 oz. bottle wrappers in with your order if you post it this week.

CAPSOL PRODUCTS LTD.
Head Office and Works :
BLOOMFIELD RD., BLACKPOOL

Cross-Word Treasure Hunt

Prizes £90

1st PRIZE	£50
2nd "	£15
3rd "	£10
4th "	£5

ADVERTISEMENTS IN THE DAILY PRESS

will soon be setting people talking about the Cross-Word Treasure Hunt and

HEIDE'S LICORICE PASTILLES

A COMPLIMENTARY prize of £10 will be sent to the Chemist who supplies Heide's Pastilles to the £50 winner. We print below the first of three cross-word puzzles which when correctly worked will reveal the hidden treasure. With all orders we are sending a supply of coupons containing the current cross-word puzzle complete with clues. Each advertisement indicates that these coupons can be obtained through Chemists only. Have your stock ready—paste one of the current coupons on your window pane and start selling right away at a good profit.

Heide's Pastilles are a coming rage. They are excellent for the Throat and splendid for Speakers, Singers, Motorists, Golfers and all Sportsmen. The Pastilles are contained in a strong carton suitable for the waistcoat pocket or handbag. The counter display outer holds 20 packets and is the smartest display of the year. It commands attention—sufficient to sell you out over a week end.

RETAIL. 6d. per box.

TRADE PRICES. With artistic Show-outer Showcards and supply of Cross-word puzzle coupons.

Per box of 20 cartons - - - **7/6**

One dozen lots - - - less 5%

Sole Agents:

**AYRTON,
SAUNDERS
& CO., LTD.**

34 Hanover Street - - - LIVERPOOL.

The Druggists' Portable Typewriter— Remington

Write for
Illustrated
Folder
CDP

—possessing all the recognised advantages of this wonderful portable machine, plus a keyboard containing the special symbols used by the profession. It has the big machine four-bank keyboard arrangement, 42 keys writing 84 characters. *No shifting for figures.*

A HELPFUL TIME-SAVER

The busy druggist will find the light, handy, serviceable Remington indispensable to his business and a great time-saver. It turns out work of the highest legibility and accuracy at astonishing

speed. A special Drug label attachment enables neatly typed labels to be produced as required. This machine will give the impression of a high-class pharmacy run on modern lines.



The Remington Portable is the most complete of all portable typewriters—with four-bank keyboard, automatic ribbon reverse and every feature common to the big machines. Yet it fits in a case only four inches high. So handy it can be used anywhere, and so small it can be tucked away when not in use.

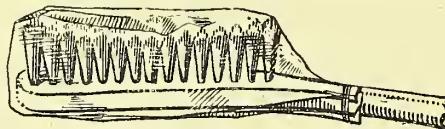
REMINGTON TYPEWRITER COMPANY LIMITED

Head Office: 100 GRACECHURCH ST., LONDON, and at 4 ST. PAUL'S CHURCHYARD, LONDON, and Branches.

CELLOPHANE

TRANSPARENT, STERILE AND HYGIENIC
CAPS, TUBES & ENVELOPES

are much stronger than similar articles in Gelatine. They are air and grease proof, **insoluble** in water and **more lasting**.



Cap.

PRICES:

	Size.	1 gross.	6 gross.	20 gross.
Caps	1 $\frac{1}{4}$ x 2 $\frac{3}{4}$	2/6	2/3	2/-
Envelopes ...	1 $\frac{1}{4}$ x 6 $\frac{1}{2}$	3/9	3/4	3/-
Tubes	7/8 x 6 $\frac{1}{2}$	18/-	16/6	15/-

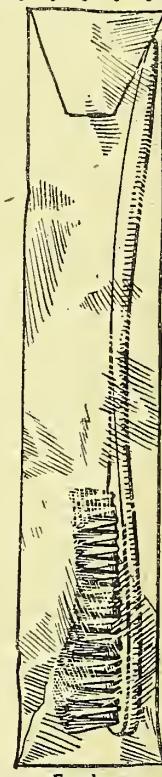
Per gross Net, free delivered. Extra, coloured instead of colourless, 10% per gross. Prices on application for printing with name and address for 21 gross minimum, also for special sizes.

Special Quotations for large quantities.

*Samples and
Particulars from*
The CELLOPHANE COMPANY
(GUSTAVE LECLERCQ)

BIRD STREET, LONDON, W.1.

Also 305-7 PRODUCE EXCHANGE, MANCHESTER. 35 MILLER STREET, GLASGOW



Envelope.

Tube.



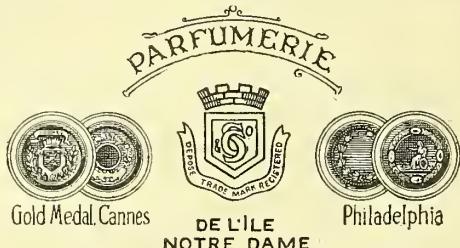
Be "in the swing"!

Stock
MINERALSPRING

The Chemist's Own Effervescent—not supplied to the Grocery Trade—a thoroughly reliable preparation—long and vigorous effervescence—sparkling appearance—new bottle-and-carton pack—generous protected profit on stabilised retail price—national advertising campaign.

In 1/- & 2/- bottles, price 8/- & 16/- doz. 5 gross lots 7/6 & 15/- doz.

THOMAS KERFOOT & CO LTD
 BARDSLEY VALE, LANCASHIRE,
 & Bardsley House, London, N.1
 ESTABLISHED 1797.



At the request of a large number of our customers in all parts of the country we are now issuing a

WATCH-SHAPE
Series of our
"GOLD SEAL"
EAU DE COLOGNE

This Cologne was first manufactured in 1825, and has stood the test of 100 years.

It is looked upon by many discriminating chemists as the finest on the market.

**THE QUALITY IS OF THE BEST
THE "GET-UP" IS SMART
THE PROFITS ARE HANDSOME**

It is made with pure B.P. Spirit and none but purely floral oils are incorporated.

SPURWAY ET CIE.
LIMITED.
89 GREAT EASTERN ST.
LONDON, E.C. 2.

Telegrams: "Neroli, London."
Telephone: Bishopsgate 1372.

Factories & Distilleries: Cannes-Grasse, Riviera.
Technical Laboratories: Paris.

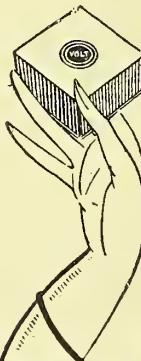
NEW YORK. LEIPZIG. KINGSTON (ONTARIO).

*Now, switch on
to Volt!*

A NEW PIVER LINE!! Need anything else be said of its certainty to please, and the well-worth-while profit it carries?

VOLT COMPLEXION POWDER promises quite as much as its sister-lines, **AS IT IS BEING ADVERTISED TO THE PUBLIC.** Quaintly named and altogether compelling, a line which will look admirable for the short time it will stay on your counter or in your window.

You will want to be able to supply your customers—lay in your stock **NOW!**



TO RETAIL AT

2½

MINIMUM
PROFIT 33½%

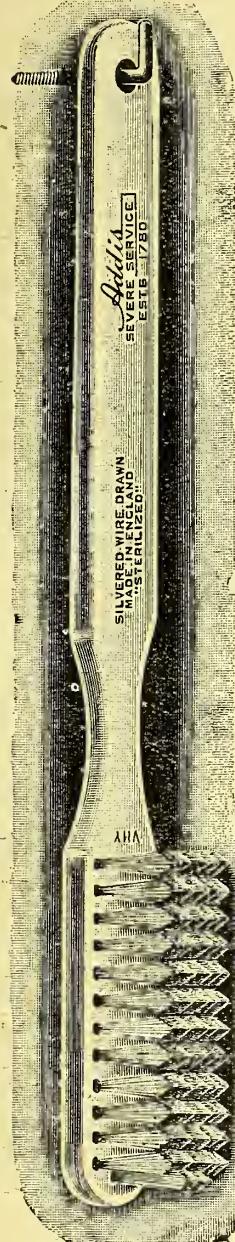


London Depot:
102 Dean Street, Oxford Street, W.1.
Telephone No.: Regent 5260.

Depot for Irish Free State:
G. J. DAVIES, 27 Eustace Street, DUBLIN.

The First Tooth Brush

ADDIS
SEVERE SERVICE
Estb. 1780.



Copyright Reserved.

was made in 1780 by WILLIAM ADDIS in London, England. The business then founded has been carried on continuously, passing direct from father to son. The policy of the business has always been "Service" to user.

When purchasing a Tooth Brush, should you require a stiff brush for Severe Service, ask for

"Addis Severe Service"

This is typically an English Style Gentleman's Brush, made of Unbleached Bristles, with small serrates on a plain straight handle.

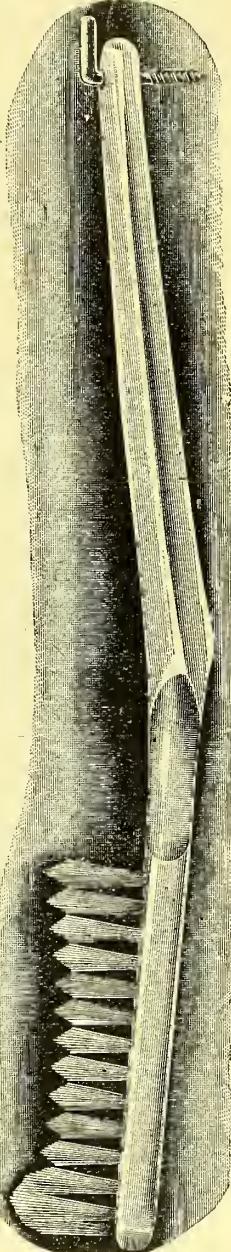
For those who require a smaller and more stylish brush the

"Addis Prophylactic"

on a curved handle, will fill the want. This brush is made in Very Hard Unbleached Bristles, Hard White, Medium White, and Soft if required. We recommend the Hard for the average use, bristles always being softer when wet.

Both these brushes are hand-fashioned and hand-drawn, the best materials and methods of workmanship being used regardless of cost.

ADDIS
PROPHYLACTIC
Reg. No. 593367.



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Manufactured in England and Guaranteed by:
THE OLDEST FIRM OF TOOTH BRUSH
MANUFACTURERS IN THE WORLD

ROBT. ADDIS & SON
BRUSH WORKS, HERTFORD, ENGLAND.

Ashes

(BOURJOIS)

Latest Success in



WE HAVE PLEASURE IN INTRODUCING THE NEWEST AND LATEST BOURJOIS PRODUCT, THE EXQUISITE AND DELICATE ASHES OF ROSES COMPACT POWDER IN DAINTY MINIATURE GILT BOX.

IN TINTS—

RACHEL
ROSETTE BRUNE
NATURELLE
BLONDE ROUGE
ROSE
BLANCHE

Small Size:

P.A.T.A. Trade
2/- each. 16/- do

HANDSOME COUNTER
DISPLAY BOX.

A. BOURJOIS et CIE., LTD
PARIS. NEW YORK.

Roses

(PARIS).

Compact Powders

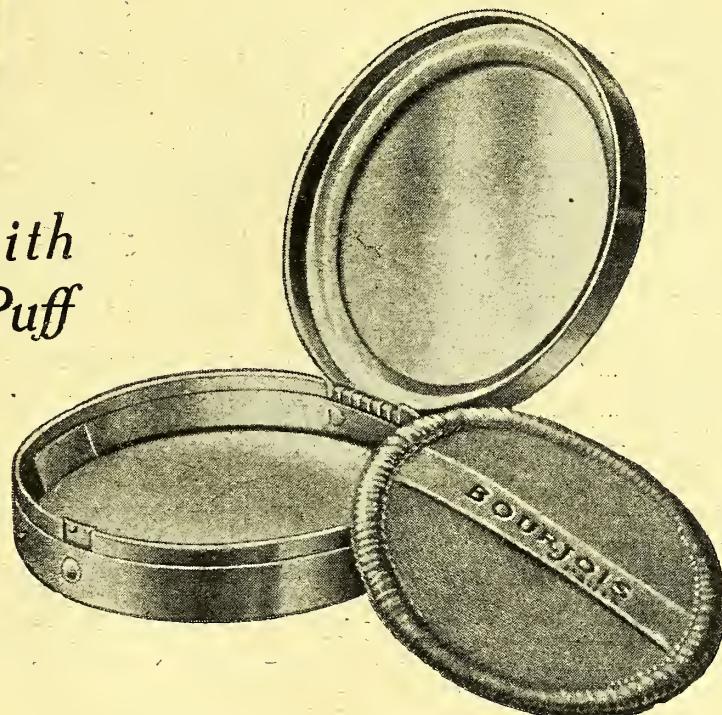


VANITY BAG
COMPACT POWDER

*In Gilt Case with
Mirror & Dainty Puff*

Large Size:

P.A.T.A. Trade
3/9 each. 30/- doz.



WATER LANE, LONDON, E.C.4
SYDNEY. NEW ZEALAND.

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	{ 18/- 31/6	2/- 3/6
A face cream.		
STYMOLE ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
COCONOID ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ...	36/- 58/6	4/- 6/6
For obesity.		
SOFT PALERIUM ...	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON, Ltd., Cape Town, etc.
 SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
 A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calle Pavon 2100, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

Newspaper-Coupon Scheme

Retailers will have an exceedingly large turnover in Palmolive Soap during March. The counter-coupon scheme is in force during the first half of the month and during the last half a very big newspaper-coupon scheme will be in operation.

If you have not received details of this scheme please send a post card to the Managing Director of The Palmolive Co., Ltd., 21-23 Eagle St., High Holborn, W.C. 1.





THE NEW GENERATION

Some people regard the new generation as amusing and pathetic; as tragic, or rather splendid. Some may consider the manners crude and the clothes absurd. The cynical, humorous discussions may stir you to admiration or fill you with rage.

But it is useless to deny that these youngsters have a definite bearing on customs of our day, and particularly do they exert a powerful influence on buying habits and the movements of merchandise.

The tremendous increase in the sales of toilet articles during the last ten years is a revelation of their power. Look at clothing for instance, nearly all clothes are young men's clothes, and most frocks are designed for young women. These young people buy enormous quantities of every conceivable kind of merchandise, and it is essential for the pharmacist to tap this rich source of trade.

Take Elfrida, the toilet series which enjoys the demand that has come to stay, its fame is spreading far and wide. It is one of the present day shopping wonders. And the pack! The bottles and boxes in which they are packed invite and entice and appeal almost irresistibly. A display in your window or on your counter, with the addition of showcards which can never be missed, will be enough to show that you stock this popular series. It is suggested that you do this and so secure your share of the tremendous business that is being offered to you by the *new generation*.

W. B.

C A R T W R I G H T L T D.

R A W D O N

N R. L E E D S

T H E H O M E O F T H E E L F R I D A S E R I E S



THE INVISIBLE GLOVE

IF YOU SHOW 'PELDO' YOU WILL SELL IT!

'PELDO' IS ORIGINAL.

It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.

WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

SOLE PROPRIETORS AND MANUFACTURERS :

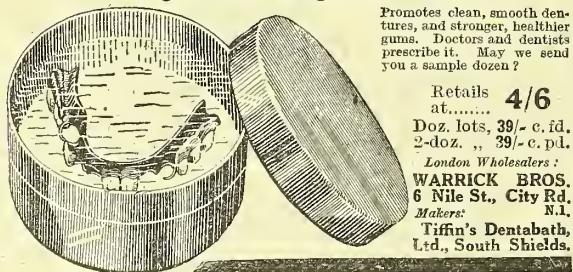
C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf,

EMMOTT STREET, MILE END, LONDON, E.1.

Tiffin's Dentabath

is the logical and most simple device for
cleansing and sterilizing Artificial Teeth



Promotes clean, smooth dentures and strong, healthier gums. Doctors and dentists prescribe it. May we send you a dozen?

Retails at..... **4/6**

Doz. lots, 39/- c. id.
2-doz. , 39/- c. pl.

London Wholesalers :
WARRICK BROS.
6 Nile St., City Rd.
N.1.
Makers :
Tiffin's Dentabath,
Ltd., South Shields.

G. B. KENT & SONS, LTD.

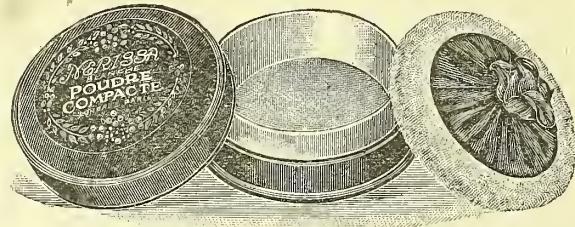
Are known the World over as
the Largest Manufacturers of

**BEST
BRITISH
BRUSHES**

Please write for full Particulars to—

75 Farringdon Road, E.C.1.

Poudre Compacte



The best range of Solid Powders on the market.

All complete with Puff, in assorted perfect tints. In attractive Show Boxes of 1 dozen.	
F100. "Thé Dansant," Nickel Plated Box	6/- doz.
F101. "Thé Dansant," " " with diminishing mirror " " "	7/6 "
F102. "Secret Charm," Embossed Aluminium Box, with diminishing mirror " " "	5/- "
F103. "Golden Dawn," Imitation Gold Box, with diminishing mirror " " "	7/6 "
F104. "Damask Rose," Imitation Gold Box, decorated in colours, with diminishing mirror " " "	7/6 "
F1003. "Nerissa," Attractive Card Boxes as illustrated, in handsome display outer " " "	5/- "

Obtainable through all Wholesale Houses.

Perfect Powder. Freedom from breakage. Daintily presented. An assortment that will meet the taste of every buyer and bring repeat orders.

*Sole
Manufacturers :*

SOLPORT BROTHERS, LTD, 184/190, Goswell Road, E.C.1.

Hinds Honey and Almond Cream

Protecting the beautiful Complexion.

The Powder Base Perfection

The Proper Care of Hands and Arms

EXTENSIVE ADVERTISING IN LADIES' JOURNALS & POPULAR MAGAZINES

has been arranged for Hinds Honey and Almond Cream, and a progressively increasing demand for this world-renowned preparation is anticipated. To be ready to meet this demand, Order your stock NOW.

Hinds Honey and Almond Cream

for the HANDS, SKIN and COMPLEXION.

"The Favoured Cream in Refined Homes."

P.A.T.A. PROTECTED PRICES

Now reduced to 10/-d. and 3/- per bottle, costing the Chemist 7/- and 24/- per dozen.

Attractive Show Matter and Dainty Counter Booklets supplied Free with order. Sole Distributors for Great Britain: FRANCIS NEWBERRY & SONS, LTD., 31/33, Banner Street, London, E.C. 1.

Please
get your supplies of
AMAMI
Shampoos from
P. A. T. A.
WHOLESALERS
They allow just the same
Bonus on a six dozen
Shampoo Parcel

10%

Make a window or counter show—the rapidity of sale will astonish you

for showcards apply direct to:—
AMAMI 4/10 Chenies St. London W.C.1.

Often imitated but never equalled

There are many imitations on the market for Anzora, but judging from the steady increasing demand for this all popular hair preparation, ANZORA has no equal for mastering unruly and troublesome hair. It is a proved seller and offers you a **GOOD MARGIN OF PROFIT**. All wholesalers can supply you, together with a free set of attractive showcards, cut-outs, etc. Make a special point of ordering a supply to-day.

Trade Terms.

12/- doz. Retail at 18/-
20/- doz. Retail at 30/-

Remember! Anzora Cream for greasy scalps, and Anzora Viola for dry scalps.

**REFUSE ALL
SUBSTITUTES**

ANZORA

MASTERS THE HAIR

ANZORA Perfumery Co., Ltd., Willesden Lane, London, N.W.6

Nuctone

for GREY HAIR

Don't Complain of
declining profits
SELL
NUCTONE
For Grey Hair

and establish a regular and profitable business in a line which is showing increasing sales week by week.

You can safely recommend Nuctone—the Sunshine and Fresh Air Treatment for Grey Hair—it is sold under our positive guarantee that it cannot injure the skin or hair and has been proved successful under all circumstances.

Nuctone shows a splendid profit and is a regular repeater. It is essentially a chemist's line, is worthy of his personal support and does not deteriorate in stock. Ample show material is supplied.

Retail Price 3/9 & 6/6 per bott.
Trade „ 32/- & 52/- per doz.

Nuctone Concentre and Nuctone Eclaire Concentre.

Retail Price 6/6 & 12/6 per bott.
Trade „ 52/- & 84/- per dozen.

In four grades:

NUCTONE for dark and medium hair.
NUCTONE ECLAIRE for fair & auburn shades.
NUCTONE CONCENTRE for Gentlemen.
NUCTONE ECLAIRE CONCENTRE for gentlemen or ladies with fair hair who wish quicker result.

Obtainable from your usual wholesaler or direct
from—

QUELCH & GAMBLEs, Ltd.
211/215 Blackfriars Rd., London, S.E.1

Manufactured by
STEWART, GOODALL & DUNLOP, LIMITED,
4 Dering Street —————— London, W.1

THE ORIGINAL
:: : AND :: :
STILL THE BEST



JACKEL'S
CREAM
FOR THE HAIR
SOLD EVERYWHERE.

1/9 PER BOTTLE 2/6

Jackel's Cream has now been over 40 years on the market and enjoys a steady reliable sale. Once a customer buys Jackel's, imitations have no appeal because Jackel's is still the best.

HOW ARE YOUR STOCKS AT PRESENT?

12/- and 18/- per dozen.
Retailing at 1/9 & 2/6 per bot.

SHOWCARDS AND PARTICULARS FROM
JACKEL et CIE (of Paris) Ltd.
GLASGOW.

ESSENCES

HIGHEST CONCENTRATION.

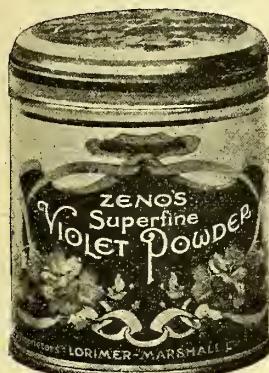
Sole Agents for Gt. Britain and Colonies
FOR
FRIES & BRO. NEW YORK
The World-Renowned Makers of
FIRST QUALITY ESSENCES.

Stocks in London. Ask for Quotations & Samples.
PEACH APRICOT HONEY MAPLE &c.

A. CONNELL & CO., Melba House,
WENLOCK ROAD, CITY ROAD, LONDON, N.1
Phone: Clerkenwell 7266. Tele.: "Nitrozone, Ald. London."

LORIMER-MARSHALL

for
PACKED GOODS



SPECIAL VALUE

VIOLET POWDER ZENO'S SUPERFINE

A delicately perfumed prepared Starch Powder in strikingly handsome decorated tins; two sizes available.

2/9 doz., 33/- per gross.
4/9 " 54/- "

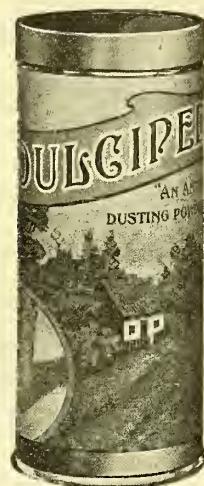
FOOT POWDER (DULCIPEDÉ)

An effectual remedy for Damp or Perspiring Feet.

In handsome enamelled tins with dredger tops.

2/3 per dozen,
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SAMPLE TIN GLADLY UPON REQUEST



LORIMER-MARSHALL, Ltd., 12 Tower Hill, LONDON, E.C.3

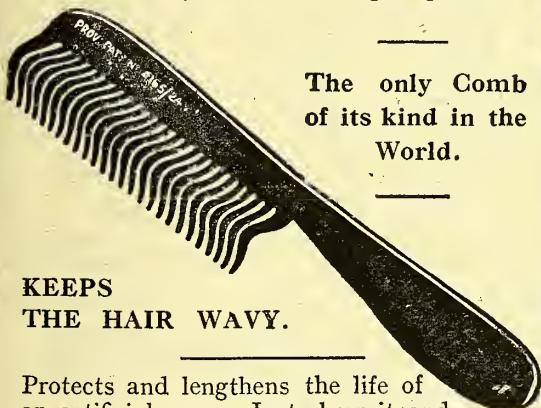
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"WAVERLEY" COMB

Prov. Pat. 4165/24

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The only Comb
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KEEPS
THE HAIR WAVY.

Protects and lengthens the life of
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FROM THE FIRST
WE HAVE BEEN
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5,000 CUSTOMERS
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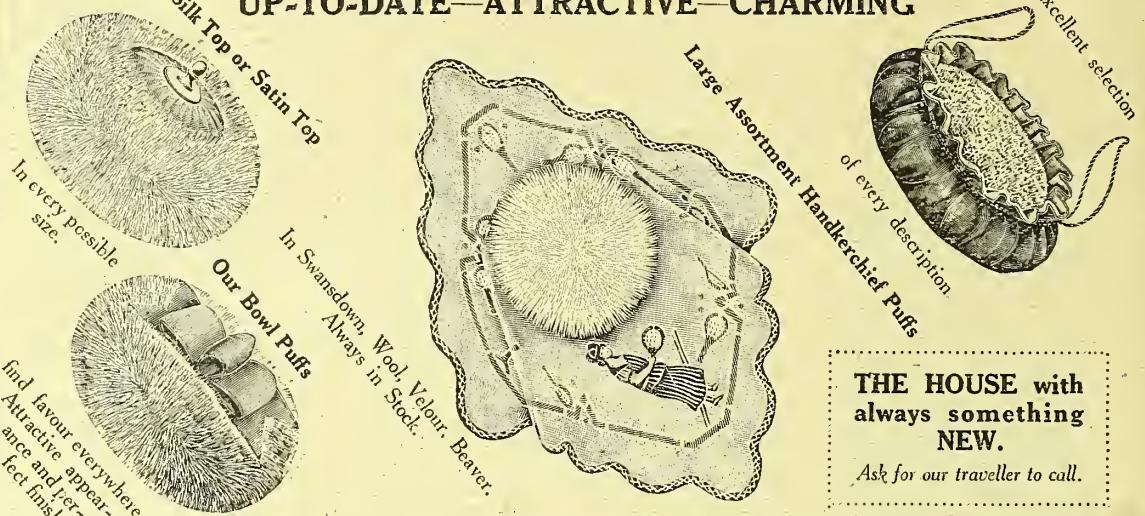
1 box - 27/11; 2 boxes - 27/9;
3 boxes - 27/6; 5 boxes - 27/-;
10 boxes - 26/9; 20 boxes - 26/6.
Post Paid. Cash with Order Prices.

CONTRACTS ARRANGED FOR
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* The Actual Importer *
34 CALL LANE, LEEDS

WORTH-WHILE LINES IN PUFFS

UP-TO-DATE—ATTRACTIVE—CHARMING



THE HOUSE with
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NEW.

Ask for our traveller to call.

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Wholesale & Export Druggists' Sundriesmen,

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QUICK DELIVERY.
KEEN PRICES
FOR

**U.S.A. and CANADIAN
GILLETTE BLADES**
WARDS of WARRINGTON

U.S.A. GILLETTE BLADES

Guaranteed Genuine. Still Further Sweeping Reductions.

1 Box, 5's and 10's	...	£1 7 11 Nett.
2 Boxes	"	£1 7 8½ "
3	"	£1 7 6 "
5	"	£1 7 0 "
10	"	£1 6 8 "
20	"	£1 6 5½ "

*Larger quantities specially quoted for. Prompt Despatch,
Post Paid, C.W.O. unless approved a/c; then C.O.D.*

Do your business with a British Firm, and the cheapest House in the Trade

T. S. MORTON Razor Blade
Specialist,

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DENTAL PLATE BRUSHES for ARTIFICIAL TEETH

We make twelve different patterns so as to suit any Dental Plate

Send for Samples.



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Now is the time to place

Now is the time to place
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TOILET SOAPS & PERFUMERY

Our extensive & varied range of reliable, profitable lines of the usual high standard of excellence, are complete & ready to satisfactorily meet the requirements of all classes of trade.

Get into touch with us before ordering.



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Gillette
TRADE KNOWN THE WORLD OVER
MADE SAFETY RAZOR

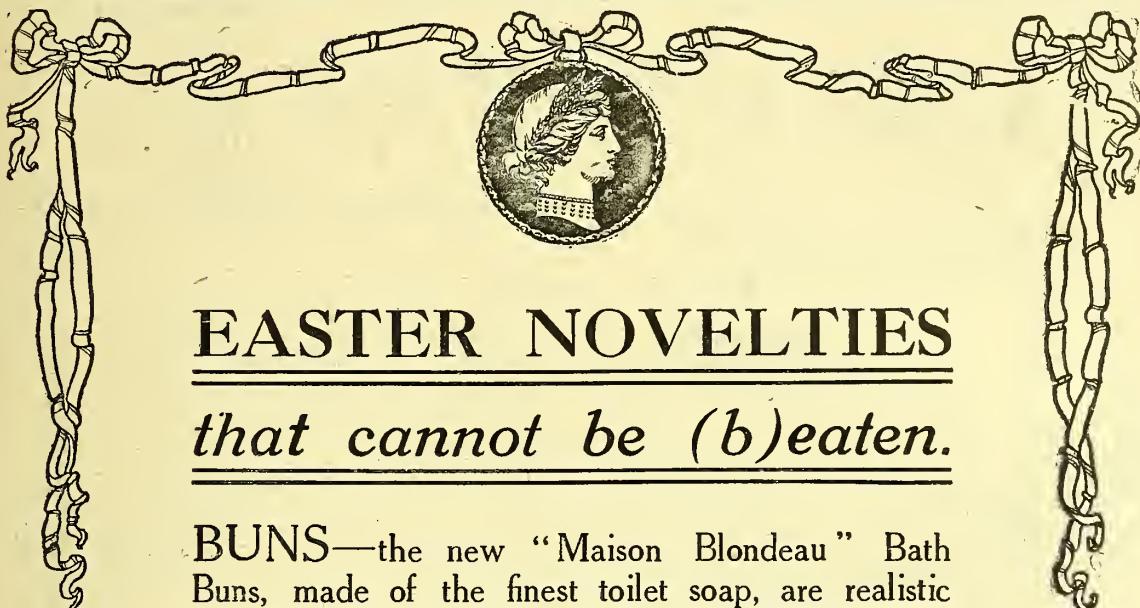
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24, 25, 26 Great Hampton Street, BIRMINGHAM.



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Also ALL CUT GLASS POWDER BOWLS and TRINKET SETS. BRUSHES, MIRRORS & MANICURE SETS in SILVER, TORTOISESHELL, EBONY, etc.



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that cannot be (b)eaten.

BUNS—the new “Maison Blondeau” Bath Buns, made of the finest toilet soap, are realistic reproductions of “Hot Cross” Buns. There are three sizes:

Bath Buns (bath weight) in boxes of 3—retail 2/-

Minatures FREE on certain orders.

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PREMIER in new and most attractive boxes of 6
with 2 fluffy little chicks in each.

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All the above when bought on best terms show **50% on outlay**. Useful novelties always appeal, so order early to ensure supplies.

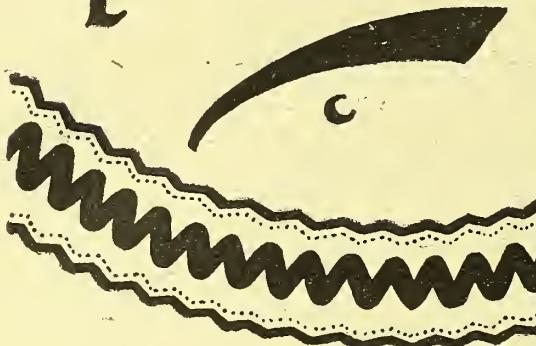
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COMPANY. LIMITED

(Selling Agents for *Blondeau et Cie. Ltd.*)

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To make "Special Lines" at "cheap" prices POSSIBLE at all—the first thing is "cheap bottles." We have QUANTITIES of various bottles—"just the very thing" for "Special Lines"—that "go" so well with the Chemist and the Public. We cannot repeat these lines at the prices we shall ask. Help yourself! Tell us what you want and the capacity, and we will send you sample bottles and prices.

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REAT interest is being manifested in this forthcoming Exhibition, as this is the first Exhibition of its kind ever held in Ireland. All Chemists and Druggists are cordially invited to attend the Exhibition and Conference. Reduced fares have been arranged by which a return ticket may be obtained for the price of a single fare and one-third from March 28th to April 6th inclusive.

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end your
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Parcel 24 gr. First Quality 21/-
No. 1284 Cash on approval.

4 gr. 1 dr. to 2 oz.; 8 gr. 3 to 4 oz.; 12 gr. 6 to 8 oz.

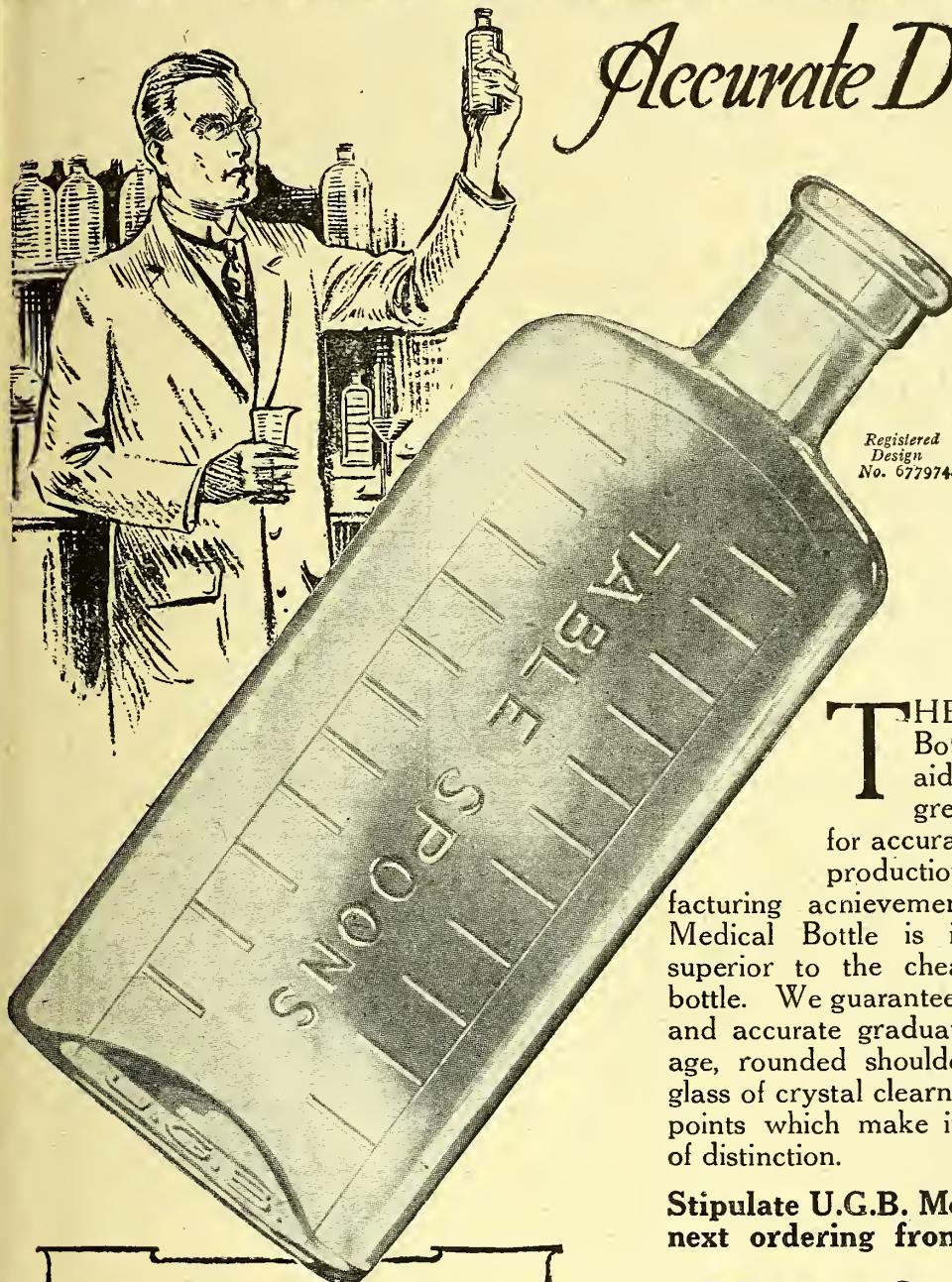
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A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

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THE U.G.B. Medical Bottle is the greatest aid in maintaining the great British reputation for accuracy in dispensing. Its production is a British manufacturing achievement, for the U.G.B. Medical Bottle is in every detail far superior to the cheap foreign imported bottle. We guarantee its accurate capacity and accurate graduations. Its even corkage, rounded shoulders and corners, and glass of crystal clearness are other essential points which make it the Medical Bottle of distinction.

Stipulate U.G.B. Medical Bottles when next ordering from your wholesaler.

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DRUGGIST SUNDRIES

OF EVERY DESCRIPTION

Proprietors of the well-known
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HYGIENIC
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Packed each in
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The most
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"See how it
Stretches."

Wherever elasticity, adaptability and support are needed there is nothing to equal the

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CRÉPE BINDERS

Made in 6, 8 & 11 in. widths, they will stretch to double their length. Hygienic, rubberless and washable, they are **INVALUABLE IN MATERNITY.**

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*Stocked by all the leading
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CRÉPE BANDAGES

2" @ 13/- doz.

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3" @ 18/- "

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POST PAID 20/-

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Victoria Bridge,
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Surgical Dressings
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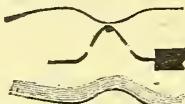
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(BEST ENGLISH MAKE GUARANTEED)

THE "DUO-IN-UNO" (QUICK SHAKE-DOWN)



In addition to medical men and nurses the general public are now buying Clinical Thermometers in ever-increasing quantities. They will buy more still if it can be made clear to them how easy these Thermometers are to use. The great difficulty has always been the resetting or shaking down of the index after use, which frequently requires considerable exertion. This trouble is obviated in our "Duo-in-Uno" (quick shake-down) Thermometer. The proverbial "brace of shakes" is not necessary—one shake does all that is required.

PRICES

ROUND PATTERN,	2 minute	per doz.	s. d.	LENS FRONT,	2 minute	per doz.	s. d.
" "	1 "	"	20 0	" "	1 "	"	21 0
" "	½ "	"	21 0	" "	½ "	"	24 0

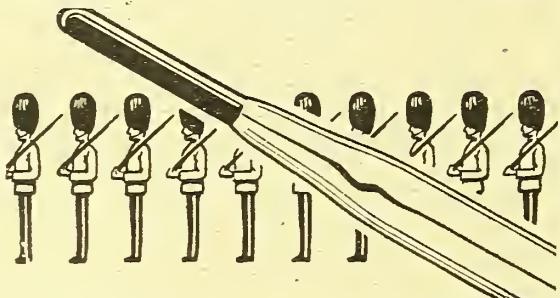
Each one in metal case, and packed in a specially designed card box with descriptive label on lid. Customers can have their names engraved on any of the above Thermometers free of charge.

NOTE.—The above prices are for guaranteed best London Made Thermometers but which are NOT STAMPED at the National Physical Laboratory. If they are required so stamped (N.P.L.) the price will be 3/- per dozen more in each case.

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A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

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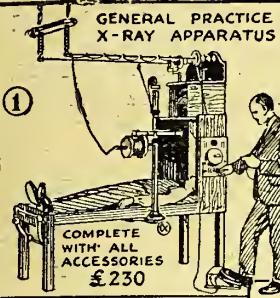
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through not having supplies, but
send at once for full details to

Sole Manufacturers :

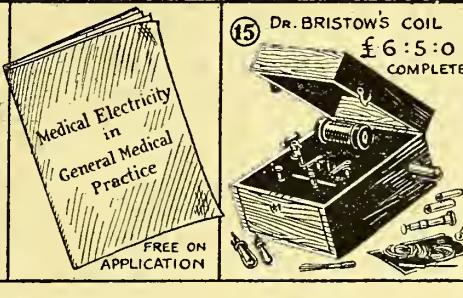
G. H. ZEAL, Ltd. 77 ST. JOHN STREET,
CLERKENWELL, E.C.1

Telephone: CLERKENWELL 5202.
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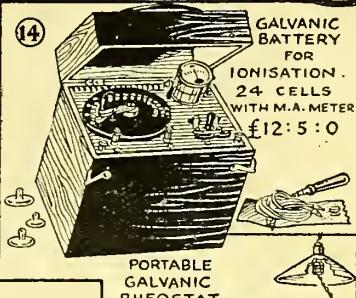
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Plasters
are made
by Taylors
Will make them



GENERAL PRACTICE X-RAY APPARATUS
COMPLETE WITH ALL ACCESSORIES £230



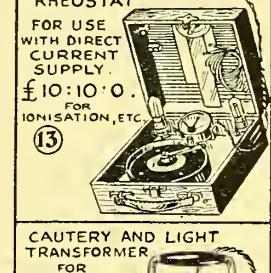
DR. BRISTOW'S COIL £6:5:0 COMPLETE



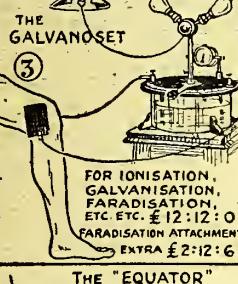
GALVANIC BATTERY FOR IONISATION. 24 CELLS WITH M.A. METER £12:5:0



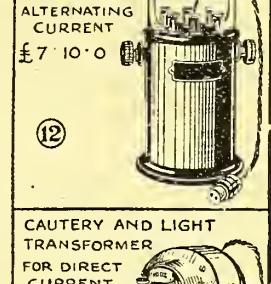
"RADIOLUX" HIGH FREQUENCY APPARATUS
COMPLETE WITH FOUR APPLICATORS AND CARRYING CASE £6:10:0



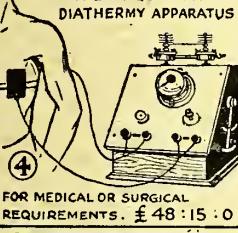
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FOR IONISATION, GALVANISATION, FARADISATION, ETC. ETC. £12:12:0
PARADISATION ATTACHMENT EXTRA £2:12:6.



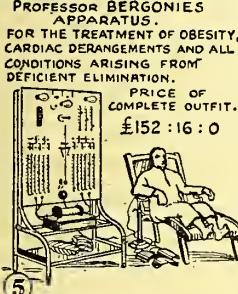
CAUTERY AND LIGHT TRANSFORMER FOR ALTERNATING CURRENT £7:10:0



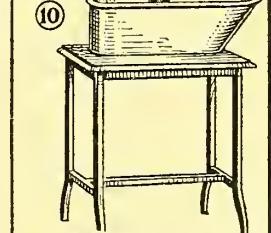
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FOR MEDICAL OR SURGICAL REQUIREMENTS. £48:15:0



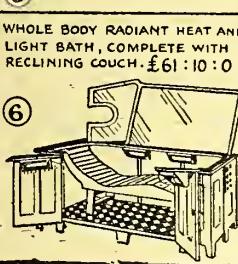
CAUTERY AND LIGHT TRANSFORMER FOR DIRECT CURRENT SUPPLY. £26:0:0



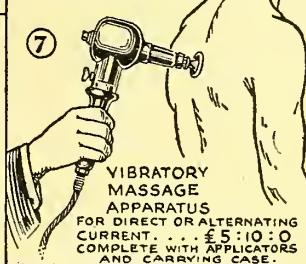
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FOR THE TREATMENT OF OBESITY, CARDIAC DERANGEMENTS AND ALL CONDITIONS ARISING FROM FATIGUE AND EXHAUSTION.
PRICE OF COMPLETE OUTFIT. £152:16:0



SCHNEE BATHS ARM OR LEG £1:16:0 PER CELL
OAK STOOLS £1:11:6 FOR ABOVE



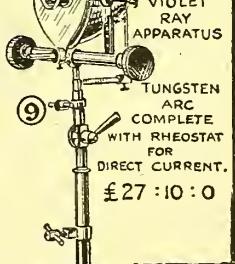
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VIBRATORY MASSAGE APPARATUS FOR DIRECT OR ALTERNATING CURRENT. £5:10:0 COMPLETE WITH APPLICATORS AND CARRYING CASE.



ADJUSTABLE LIGHT BATH. FOR JOINTS OR LUMBAR REGION, ETC. £8:0:0.



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TUNGSTEN ARC COMPLETE WITH RHEOSTAT FOR DIRECT CURRENT. £27:10:0

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WRITE TO US. WE CAN GIVE YOU
HIGHEST GRADE WORKMANSHIP
AT COMPETITIVE FIGURES.**

**X-Ray Apparatus.
Radiant Heat & Light Apparatus.
Galvanic Batteries, etc.**

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The special "CLINBRITIC" series of CLINICALS is a range of the best instruments that can be made. The tubes are manufactured of standard gauge glass and the bulbs of normal glass. They are of British make throughout, distinctly marked and lettered, and all are "EASY-SET."

"CLINBRITIC" SPECIAL EASY-SET.

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Plain Index	12/-	13/3	14/6
Lens Front	12/6	14/-	15/3

Each in N.P. metal case.

THE LENS FRONTED INSTRUMENTS HAVE A SPECIAL REGISTERED COLUMN INDICATOR IN RED. Customer's own name free on not less than 1 dozen of a kind.

ORDINARY SERIES (British Make).

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Plain Index	10/6	11/9	13/-
Lens Front	11/-	12/6	13/9

Each in N.P. metal case.

Customer's own name free on not less than 1 dozen of a kind.

SPECIAL QUOTATIONS FOR QUANTITIES OF EITHER KIND.

5% monthly a/c. Carriage and packing free on 1 dozen or over.

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S.E.1

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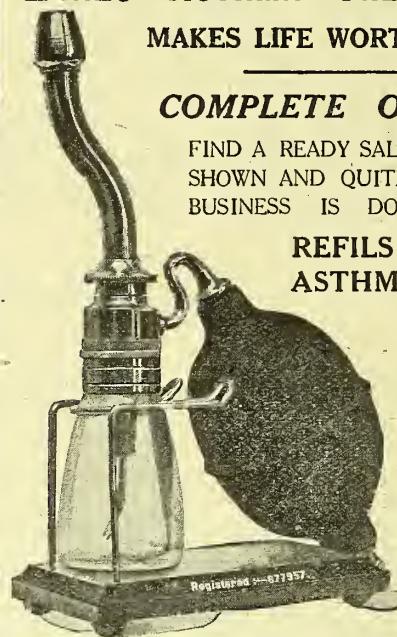
MAKES LIFE WORTH LIVING

COMPLETE OUTFITS

FIND A READY SALE WHEN SHOWN AND QUITE A BIG BUSINESS IS DONE IN

REFILLS (ZEALS ASTHMA FLUID)

Thousands in use in all parts of the World.



Write for terms and booklets.

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Severn Road, WESTON-SUPER-MARE.

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Regd.
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FLASKS

GUARANTEED DOUBLE TESTED

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(John Tolmie, M.P.S., Proprietor)

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Corrects bunions, straightens crooked toes by mechanical action. Made of finest soft surgical rubber it gently restores the joint to its normal position. Three sizes, price 2s. each.



Dr Scholl's
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give immediate relief and permanent correction to every type of foot trouble. By linking up, through strong window displays, with "Scholl" National Advertising you will obtain your share of the tremendous demand we create, thereby greatly increasing your profits.

Write to-day for full particulars.

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Lullaby
(REGD.)
 FEEDING
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 TEAT?
(PATENT)



It is a pure Rubber Heat-Cured Teat made to stand repeated sterilisation. A newly-designed Transparent Model.

Have you had
 your Sample?

WRITE FOR ONE AND
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 It Retails at 4d. with an extra
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Again, our great 1925 Advertising Campaign in Daily, Weekly and Monthly publications covers the whole of Britain and *brings sales right to your door*. Write for full details and Trade Terms and let us co-operate with you by supplying showcards, descriptive literature, etc.

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£4.15.0 Retail.

With Oak or Mahogany
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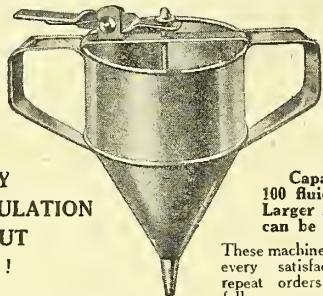


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THE "HANDY" FILLING MACHINE

(Recently improved: Patents pending).



SPEEDY
MANIPULATION
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WASTE!

Capacity:
100 fluid ounces.
Larger machines
can be supplied.

These machines are giving
every satisfaction and
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No. 1, in heavy charcoal tin-plate	13/6
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" in pure copper, tinned	42/6

Nett. Delivered Free.

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Manufacturer: T. LAUDER (L. C. T. Lauder)
7 EXMOUTH STREET, LEEDS.

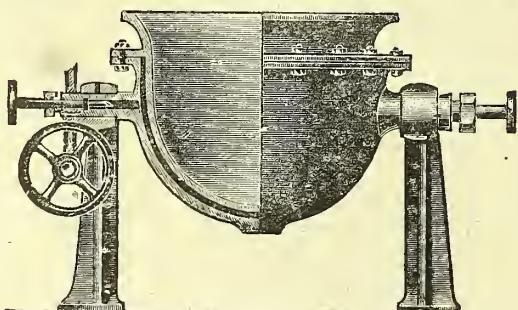
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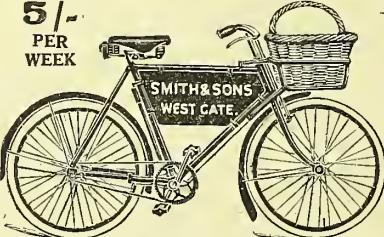
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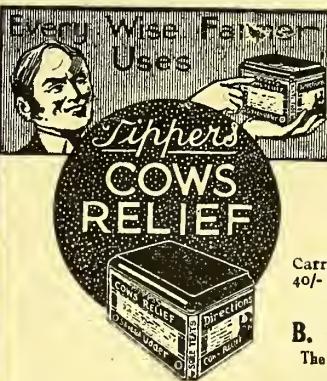
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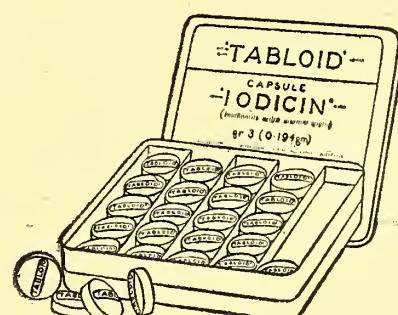
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New Books

Tschirch, A.—*Handbuch der Pharmakognosie*, Vol. III, No. 15. Pages 750 to 812. 11 in. by 8 in. Chr. Herm. Tauchnitz, Leipzig. [This number is the first instalment of the second part of Volume III of Professor Tschirch's monumental Handbook of Pharmacognosy, the first part of which was reviewed in the C. & D., April 19, p. 559. It deals with drugs containing toxalbumins (jequirity seeds and *Robinia Pseudacacia*); drugs inhibiting the coagulability of the blood (leeches); drugs containing enzymes (yeast, kefir, koji); drugs containing bitter principles (*Pimpinella Saxifraga*, *Ononis spinosa*, *Carex arenaria*, *Podophyllum peltatum*, *Asarum europaeum*, *Aristolochia Serpentaria*, *Solanum Dulcamara*, *Astragalus Sarcocolla*, *Quassia amara*, *Simaruba amara*, *Croton Eluteria*, *Piscidia Erythrina*, *Polygala amara*, *Cnicus benedictus*, *Tanacetum vulgare*, *Achillea moschata*). In addition to the drugs enumerated, which are dealt with at length, a large number of less-known drugs belonging to these classes are also described. This first instalment maintains the same high standard which is characteristic of the part already issued—an exhaustive and authoritative presentation of the sum of our knowledge.]

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Contracts

The following tenders have been accepted by the bodies named:—

Bermondsey (London) Borough Council.—W. H. Keys, Ltd., and Voxsan, Ltd., carbolic acid; Burt, Boulton & Haywood, Ltd., formaldehyde solution and sulphure; Middleton Bros., Ltd., formalin tablets; Dussek Bros. & Co., Ltd., roll brimstone.

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Inquests

An inquiry was held recently at St. Peter Port, Guernsey, into the circumstances of the death of Miss Florence Blondel, a member of the local staff of Boots, Ltd. Evidence showed that death was due to injuries received when Miss Blondel was knocked down by a lorry: a verdict of "Accidental death" was returned.

An inquest was held at Pontefract, on February 27, on the body of Mr. Alfred Collins, chemist and druggist and dentist, who was found lying dead on the floor of his garage. A medical witness said he had no doubt that death was due to poisoning by carbon monoxide. His theory was that so long as Mr. Collins stood erect, even with the engine running, he would be safe, but the moment he stooped he would place his head in the accumulated heavy exhaust gases, and be instantly suffocated. The jury returned a verdict of "Accidental death."

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

In North London, Ernest A. Lawrence, barman, committed suicide by taking vermin killer containing arsenic and strichnine while of unsound mind.

The deputy-coroner for Central London recently concluded an inquest on the body of Herbert Giles, an insurance clerk, living in Bloomsbury Square. His doctor, it was stated, had prescribed for him one tablet of luminal daily. Mr. John Webster, Home Office analyst, stated that he found on analysis 2 gr. of luminal in the organs. From the analysis, the witness was of opinion that the man had probably taken ten or more tablets. Luminal had practically the same effect as veronal, but was more poisonous. A verdict of "Death by misadventure" was recorded.

At Accrington, an inquest was held recently on the body of Joshua Smith, a labourer, aged seventy. It was stated in evidence that the deceased, who was illiterate, kept his bottles of medicine on a shelf with other bottles, and by mistake drank from one containing a solution of ammonia. When the doctor discovered that it was a case of poisoning he gave Smith's son a prescription, but the son said "it was not made up there and then because the chemist told me it would take too long—twenty-five minutes or half an hour." The coroner entered a verdict that "the deceased died from drinking a quantity of ammonia in mistake for his medicine, and thereby poisoned himself."

Footballers' Events

In a good game, on February 26, Sheffield Chemists' Football Club defeated Cole Brothers by three goals to two. Elliott (two) and Hartley scored for the chemists.

Playing in the third round of the Buchanan Cup, on February 28, a team representing The British Drug Houses, Ltd., was beaten by Callenders by seven goals to nil.

Bridlington chemists' apprentices organised an enjoyable whist drive and dance at Rowntree & Taylor's Café on February 27, the proceeds being in aid of the football club. There was a good attendance. Mr. T. Taylor, chemist and druggist, was the M.C. for whist, and Mr. A. A. Field, chemist and druggist, the M.C. for dancing. The prizes for whist and spot waltzing were presented by Mrs. Bottomley.

The annual dinner of the football section of Harker's Athletic Club (C. R. Harker, Stagg & Morgan, Ltd.) was held at the New Globe Hotel, London, E., recently. Mr. A. S. Hull, works manager, presided over a company of sixty members and past members. A well-served meal and an excellent programme of music were submitted. The toast, "Directors of the Company," given by the chairman, was replied to by Mr. A. MacDonald, secretary of the company, in the absence of Mr. Sydney Morgan. "The Chairman" was proposed by Mr. H. W. Harrie, and "The Visitors and the Ladies" was replied to by Mrs. Conway. "The Outside Staff" was enthusiastically received, and was replied to by Mr. L. A. Garratt. At the conclusion of the concert the chairman gave the "Wireless Toast" (otherwise Messrs. Brailsford, Batty and Collis), the committee responsible for the arrangements. This was responded to by Mr. Jack Brailsford, the popular manager of the tablet department.

Birmingham

The number of patients (62,902) treated at the Birmingham General Dispensary in 1924 showed an advance of 4,885 on the previous year.

February 27 was the fiftieth anniversary of the stone-laying of the University Buildings in Edmund Street by Sir Josiah Mason on his eightieth birthday.

The British Industries Fair closed on February 27. The verdict of the promoters and exhibitors alike is that the business transacted has exceeded all expectations. There were 40,000 actual buyers.

The Birmingham Photographic Society's Exhibition opened on February 28 at the galleries of the Royal Society of Artists, New Street. All local and Midland societies are exhibitors, and it will well repay a visit.

A meeting of the local section of the Institute of Chemistry was held at the White Horse Hotel on February 23, when Mr. Marlow gave an address on "Service Contracts." Numerous questions were put and answered, and a vote of thanks proposed by Mr. F. H. Alcock, F.I.C., Ph.C.

Leicester

The Leicester Pharmaceutical Assistants' Association held a successful whist drive and dance at the Victoria Hall, on February 25. There were 84 players, and the following were the prize-winners:—*Ladies*, (1) Miss A. Sampson; (2) Mrs. Graham; (3) Miss Turnbull; (consolation) Miss Goodman. *Gentlemen*, (1) Mrs. Turnbull (playing as gent.); (2) Mr. E. B. Ward; (3) Mrs. Riley (playing as gent.); (consolation) Mr. Morris. Two interval prizes were also given. Following the whist drive, dancing took place.

Liverpool

The Liverpool Guardian Trade Protection Society, at its 102nd annual meeting on March 3, paid a tribute to the late Mr. T. Fell Abraham, a member of the board.

The Liverpool Pharmacy Club mustered sixteen at the Playhouse on the recent "theatre night," and eleven at an extra ramble to Thornton Hough, Cheshire, on March 1.

The business at one time carried on by the late Mr. Andrew Henderson, chemist and druggist, 83 Window Lane, Garston, has been acquired by L. W. Mussell, Ltd., chemists, 101 St. Mary's Road.

Messrs. J. L. Hirst, H. Humphreys Jones, A. Bennett, Manson and Rae attended the reception given by the Vice-Chancellor of the University of Liverpool to the representative of the Liverpool learned societies on February 28.

The annual dinner of the Liverpool Chemists' Association was held at the Adelphi Hotel on March 4. Mr. J. L. Hirst, President, occupied the chair, and over 100 members and friends were present. Replying to the toast of "The Pharmaceutical Society," Mr. Philip F. Rowsell, F.C.S., Vice-President of the Society, thanked Liverpool chemists for their loyalty to the Society's educational policy, the results of which would be to eliminate unsuitable candidates for apprenticeship and to raise the status and remuneration of chemists. Mr. Rowsell paid tribute to the late Dr. Symes, whom he described as "the Grand Old Man of pharmacy."

Miscellaneous

BURGLARY.—The premises of Timothy White Co., Ltd., Sittingbourne, were broken into recently and a small sum of money was stolen.

POISON-LICENCE APPLICATION.—Mr. A. Hogg, trading as Thomas Hogg & Son, nurserymen, Sutton, has applied to the Surrey County Council for a licence under Section 2 of the Poisons and Pharmacy Act, 1908.

ROYAL COMMISSION ON NATIONAL HEALTH INSURANCE.—The Public Dental Service Association of Great Britain, Mr. Benjamin Broadbent (Huddersfield), the United Women's Insurance Society and the National Amalgamated Approved Society were represented by evidence given at the meeting of the Commission on February 26.

IN THE COURTS.—At Blackburn, on February 26, Joseph Linneker, who had succeeded in obtaining a tin of Allenburies Food and the sum of 16s. by false pretences at the shop of Daniel Yates, Ltd., chemists, was sentenced to two months' imprisonment.—At Wakefield City Police Court, recently, Ernest Milnes, Thornes Lane, was ordered to pay 4s. costs on a charge of selling a liquid preparation of ammonia without any name and address appearing on the bottle.

FIRE.—The following outbreaks of fire have been recorded since our last report:—At Lincoln, on March 2, there was an outbreak of fire, attributed to the fusing of an electric wire, on the premises of Mr. A. Tyreman, chemist and druggist, Burton Road. The fire was soon extinguished, and the damage was not of a serious nature.—Extensive damage was caused at the premises of the Bedford Chemical Co. (1922), Ltd., manufacturing chemists, Bedford, on March 3, by an outbreak of fire, which is thought to have been caused by the fusing of an electric wire.

WINE-LICENCE APPLICATIONS.—At the adjourned licensing sessions for Kingston-on-Thames, on March 2, when an application was made on behalf of Stirlings, Ltd., chemists, for a licence to sell medicated wines, the question arose as to whether port wine was a medicated wine. The chairman (Mr. Alfred Higgs, of the Thames Valley Pharmacists' Association) remarked that port wine is sometimes ordered by doctors; he knew of a case in which a doctor said to his patient, "Gargle your throat with port wine, and if a little slips down it will not hurt you." The justices, after consideration, refused the licence.—At Bolton Licensing Sessions, on March 2, an application for a wine off-licence by Savage & Co., chemists, Bromley Cross, was refused.

BORIC ACID IN CAKES.—At South-West London Police Court, on March 2, James Wooding, baker, was summoned for having sold "Fairy" cakes containing boron preservative equivalent to 24.6 gr. of boric acid per lb. Mr. Walter Frampton, defending, asked for an adjournment, on the ground that the proposed regulations relating to preservatives in food had been already drafted, and, he believed, laid on the table of the House of Commons. There were no existing regulations governing the case before the Court, but for years there had been an understanding between the Ministry of Health and the trade regarding the extent to which boric acid might be used as a preservative in liquid eggs used in cakes. Mr. Done, who prosecuted, said it would appear that each cake contained 2 gr. of boric acid. Such things were eaten mostly by children, and it would be proved that the preservative in excessive quantities was most injurious to health. The hearing was adjourned.

Scottish News

Edinburgh

Mr. Dey (T. & H. Smith, Ltd., manufacturing chemists, Edinburgh) has been elected a Fellow of the Royal Society of Edinburgh.

Inquiries have recently been made by the police regarding sales of slippery elm bark, which, it is suggested, is being used for unlawful purposes.

The "Edinburgh Gazette," February 13, contained a notice that the Scottish Board of Health propose to make regulations controlling the use of preservatives and colouring matter in food. The regulations, in draft form, are obtainable from H.M. Stationery Office, 120 George Street (see also *C. & D.*, February 21, p. 253).

The annual competition for the Scottish Chemists' Trophy has been fixed for May 13, over Gleneagles. The arrangements are being made by the Edinburgh committee, with Mr. G. Baxter, 11 Polwarth Place, and Mr. James Finlay, 302 Morningside Road, Edinburgh, as secretaries. The annual match for the Rainy Brown Trophy between Edinburgh and Glasgow chemists is to be played on May 26, over the championship course at Muirfield.

Glasgow

Glasgow pharmacy assistants and students will hold their annual dance in the Central Halls, 25 Bath Street, on March 10, at 7.30 p.m. Tickets may be obtained from Messrs. Coutts, Simpson and Sime.

Glasgow Pharmacy Club held an enjoyable whist drive at 165 Hill Street on February 24. Mrs. Wood Wilson presented the prizes to the following successful players: *Ladies*, (1) Miss K. McLean; (2) Mrs. Arthur Watt. The two prizes for the gentlemen were won by the following ladies playing as *Gentlemen*, (1) Miss Dalrymple; (2) Miss McNaught. An excellent programme of music and readings was contributed by Miss Betty Wilson, Mr. Bain, and Mr. Robt. Dickson, with Mrs. Munro as accompanist.—The rambling section of the Club will visit the Central Fire Station on March 10. Members will meet at George Square Scott Monument at 3 p.m.

Irish News

Wine Licence Claims

At a Claims Tribunal, held in Newry on February 25, to compensate licence-holders who had surrendered their licences under the Intoxicating Liquor Act, the following awards were made to chemists:—T. M. Shannon, Rathfriland, £190; Robert McBurney, Kilkeel and Annalong, £189; J. L. McKernan, Warrenpoint, £70; Andrew McClure, Newry, £56; O'Hagan & O'Hare, Newry, £123; Jane Armstrong, Rostrevor, £132; Connor & Sons, Newry, £323; Patrick Mallon, Newry, £124. A tribunal in Banbridge on February 26 made the following awards:—James Dale, Dromore, £93; James Stirling, Dromore, £250; Alexander Andrews, Banbridge, £351; David Walsh, Banbridge, £150.

Brevities

A fire destroyed a chemical store recently at Tralee, county Kerry, belonging to Mr. Taylor, chemist, causing damage to the extent of between £700 and £800.

At Bailieborough District Sessions, recently, Samuel Jones, described as a chemist, who was convicted for selling methylated spirit without keeping a record of the sale, was fined £15.

Mr. Harry Forrest, L.P.S.I., has opened a pharmacy at 46-48 Main Street, Bangor, co. Down. Mr. Forrest was formerly manager to Jas. S. Balmer, Ltd., Bangor, and was subsequently "on the road" for Semprolin, Ltd.

An Irish Chemists' Exhibition is to be held in the Antient Concert Rooms, Dublin, from March 30 to April 4. The exhibition, the first of the kind in Ireland, is being arranged by the Dublin and Irish Provincial Exhibitions.

Belfast

The Executive Committee of the Northern Irish pharmacists have called a general meeting of the pharmacists of the six counties for March 11 at 3 p.m. in the Carlton Hall, Belfast, to receive a full report of the committee's work in connection with the Poisons and Pharmacy Bill.

Mr. J. R. Haslett, of J. & J. Haslett, Ltd., chemists, and Mr. George Wilson, J.P., of Wilson, Jordan & Alexander, Ltd., wholesale druggists, were amongst the members of a deputation from the Belfast Chamber of Commerce and the Belfast Wholesale Merchants' Manufacturers' Association which waited on the City Council on February 27 to protest against an increase in the rates.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Saturday, March 7

School of Pharmacy Students' Association, Temple Bar Restaurant, 227 Strand, London, W.C., at 7.30 p.m. Annual Old Boys' dinner.

Tuesday, March 10

Pharmaceutical Society of Great Britain (North Metropolitan Branch), 17 Bloomsbury Square, at 8.30 p.m. Meeting to discuss new regulations and appoint delegates to by-law and Glasgow Conferences.

Wednesday, March 11

Edinburgh Chemists', Assistants' and Apprentices' Association, 35 York Place, at 8 p.m. Dr. J. Tait on "Practitioner and Pharmacist: both sides of the Picture." "Notes and Queries" by Mr. Eric Knott, Ph.C.

Manchester Pharmaceutical Association, Council Chamber, Houldsworth Hall, Deansgate. Mr. E. H. Simmons (Member of the Pharmaceutical Council) will give an address.

South-West London Chemists' Association, Wandsworth Town Hall, at 7.30 p.m. Dance. Tickets (3s. 6d. each) from any member of the Committee.

Pharmaceutical Society of Great Britain Branches (West London), Slater's Restaurant, 192 Oxford Street, W., at 8.30 p.m. Meeting to consider draft regulations. Mr. A. R. Melhuish will open discussion. *Newcastle and Northumberland Branch*, Burlington Hall, 151a Barras Bridge, Newcastle-on-Tyne, at 6.30 p.m. Annual meeting. Mr. H. Antcliffe, Sheffield, Member of Council, on "Current Pharmaceutical Topics." Social evening will follow. *Birmingham Branch*, Grand Hotel, Colmore Row, at 8.15 p.m. Meeting to consider the new by-laws and regulations. Mr. H. O. Lloyd (member of the Council) will speak. *Sunderland Branch*, at 2.30 p.m. Visit to Hendon paper works, starting from the Gas Office.

Portsmouth Pharmacists' Association, Insurance Committee's Rooms, Commercial Road, at 2.30 p.m. General meeting, and at 3.30 p.m., Pharmaceutical Society Branch meeting. To discuss draft regulations.

Thursday, March 12

London Chemists' Golfing Society, Connaught Rooms, Great Queen Street, W., at 6.30 p.m. Annual dinner. Tickets (12s. 6d. each) from Mr. D. J. Parry, 27 Old Bond Street, W.

Pharmaceutical Society of Great Britain (Liverpool Branch), Chemical Theatre, Liverpool University, at 8 p.m. Professor E. C. C. Baly, F.R.S., on "A Lecture Tour in America."

Salford Pharmaceutical Association, 40 The Crescent. Mr. W. J. Scholes (Member of the Retail Pharmacists' Union Executive) on "R.P.U. Matters."

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION.—The annual dinner and dance will be held at the Frascati Restaurant, 32 Oxford Street, W., on March 19, at 6.30 for 7 p.m. Tickets (12s. 6d. each) from Mr. J. W. Turner, 16 Inchmery Road, Catford, S.E.6.

LEADERSHIP IN BUSINESS.—“When workers do their part and give to the extent of their capacity a full day's work for a full day's pay, they have a right to expect that they shall enjoy such efficient leadership as will give them wages commensurate with their service. Lack of enterprise in direction, the use of obsolete plant in the works, and defective administration in the office are anti-social and unpatriotic facts. Efficient leadership in business is the means of affording the nation the best and most widespread service.”—Sir Herbert Morgan in “The Morning Post.”

Legal Reports

Conspiracy Charge.—At Tower Bridge Police Court, London, on March 3, Morris Lipski, Daniel De Kovnick, and Solomon A. Diamondstein were charged on remand with conspiring together to obtain goods (*C. & D.*, February 28, p. 295). Harris Fisher, hairdresser, 103 Brick Lane, E., deposed that on December 6, 1924, Diamondstein called and said that witness's son had ordered one gross of Pompeii and one gross of My Lady face powders. Witness took the powders and paid him, and he gave witness a receipt. After further evidence of a similar nature had been given, the magistrate said: I shall commit Lipski on the first charge, of larceny and obtaining credit by fraud in the case of Roberts and Sheppen, and all three on the charges of conspiracy. The accused, who pleaded "Not guilty," and reserved their defence, were committed for trial, bail being allowed as before.

Medicine Stamp Act Case.—At Leicester Police Court, on February 27, John George Graves, Hucknall, was summoned for selling in Leicester Market Place a preparation known as Amoid Skin Cure without having a licence, and without stamping the preparation with the requisite stamp. Mr. Booth, who prosecuted for the Board of Customs and Excise, stated that the defendant had a stall on which were tablets of soap, marked at 9d. each, and tins of the skin cure referred to, an ointment, marked as free samples. Mr. F. C. Brown, an officer of the department, visited the stall and asked for a sample of the ointment. Defendant handed him a bar of soap with the ointment, charging him 9d. for it, and stating that the 9d. was for the soap, the ointment being free. Another officer called at the stall and asked for a sample, but was also informed that it was given away with the soap. There were no labels on the tins as required by the Act. George Brooks, who was in charge of the stall, stated that when the officer called he was told that the ointment was free, and could have taken a tin had he wished to. It was admitted that he did not offer the officer a tin when he asked for one. As a matter of fact, the Excise authorities had refused a licence for the sale of the ointment, though it was on sale in most chemists' shops. The soap for which a charge of 9d. was made cost about 3d. The magistrates held that the ointment was being sold, and imposed a penalty in each case of £5.

Deficient Condensed Milk.—At Exeter Police Court, on February 13, Joseph Burton & Sons, Ltd., Talbot Street, Nottingham, were summoned for selling at 57 South Street, Exeter, certain condensed milks described as "condensed full-cream milk unsweetened," which was found, on analysis, to contain less than the appropriate percentage of milk fat and milk solids. Mr. E. Vosper, who prosecuted, said that the proceedings were not taken under the Sale of Food and Drugs Acts, but under the Public Health Acts. He mentioned that because notice had been received from the defendants that they intended to rely on these words, which appeared on the tin: "This milk complies with the standard fixed by the British Government, and is guaranteed by the Carnation Milk Products to contain only fresh, pure, sweet milk, condensed to the consistency of cream." The percentage of milk fat should be 9 per cent., but the sample in question contained only 8.5 per cent. The percentage of milk solids, including fat, should be 31 per cent., but in fact only 26.5 per cent. was present. Mr. Templeman, pleading "Guilty" on behalf of the defendants, said the case revealed quite a chapter of accidents. His clients, immediately the Order came out in May, advertised very largely, because they appreciated that the standard England was going to ask was higher than that of America. They could not perhaps write to every small shop which had small stocks of condensed milk. This was one of those things which was bound to happen when the standard was raised. A fine of 40s., with costs, was imposed.

"Turps" and "Best Turps."—At Old Street Police Court (London), on February 27, Albert Edward Timmins, 192 Kingsland Road, E., was summoned by the Shoreditch Borough Council for having sold turpentine which

was composed of liquid petroleum derivatives giving no indication of the presence of turpentine. Mr. Cyril Ray, who prosecuted, said it was a summons under the Sale of Food and Drugs Act for selling turpentine which did not contain turpentine at all. Defendant: I am afraid I am ignorant of the whole thing. I plead "Not guilty." Evidence of purchase having been given the defendant remarked: If I had been there this case would never have come along. That is not turpentine, and it is not supposed to be. It is a substitute for turpentine. Mrs. Ballard, Hows Street, said her little boy went to the shop and bought some turpentine, and she used it for a cold on the chest. She rubbed her chest with it, and half an hour afterwards it put her into such an agony that she could hardly bear herself. It brought her chest out in blisters. Defendant said he was not able to say what the effect of the stuff in that bottle would be on the skin. He only knew there were so many children who came in and said "Threepennyworth of turps" without any definition. Other people said "Threepennyworth of best turps." The Magistrate: You have admitted the whole thing out of your own mouth and made it much worse. Mr. Ray said the contention of the prosecution was that if those shops were selling things that were for use medicinally they should not be heard to say that because they were not chemists they were not subject to the Sale of Food and Drugs Act. The Magistrate: Why do you say that turpentine is a drug? Mr. Ray quoted from the British Pharmacopoeia and the Imperial Dictionary, and said that turpentine came within the definition of a drug used for medicinal purposes. The Magistrate (to defendant): You have told me yourself that it is your practice to sell stuff which is not turpentine, and that you do unless best turpentine is asked for. It is horrible that people like you should sell stuff of this kind. It is entirely a false description, and these poor people come to you, and you sell this poisonous stuff and it does them injury. You must pay £20, which is the maximum that the law allows me to inflict, and I wish it were more.

Eye Treatment Dispute.—In the Chancery Division of the High Court, London, on March 3, Mr. Justice Tomlin had before him a motion for judgment in default of the appearance of the personal defendants in a matter in which Mr. Stanley John Heale, 22 Albert Road, N., claimed against Mr. Shirley James Crockford, Mr. David Stanley Adler, and the Bio-Medical Co., Ltd., Vernon House, Shaftesbury Avenue, W., a declaration that he was jointly interested in equal shares in a venture or business for the development of a certain treatment for affections of the eyes invented by Dr. Oliver Anthony Newell, and in the manufacture and sale of an ointment belonging to it, and an injunction to prevent the defendants dealing with the business without his participation. Mr. Howard Wright, for the plaintiff, said that only the Bio-Medical Co., Ltd., appeared by counsel on this motion, and he had been able, as far as the company was concerned, to arrange an order by consent of the company. The personal defendants arranged with the plaintiff for the exploitation of this patent medicine for the treatment of the eye, and after the writ the plaintiff discovered that they had assigned, and the company was joined as defendants. Dr. Newell, the inventor, was not a party to the action. It was agreed that a half-share or interest which Dr. Newell gave to these parties should be held by the promoters in equal proportions—i.e., a third each of a half of the whole. The other half-share was to be held by the inventor. On assignment action was brought because the plaintiff's interest was repudiated, and the action was to recover his share of the profits. The other two defendants were trustees for the plaintiff and themselves. The Judge: If they sold the whole they must be trustees for everybody. I am troubled by the absence of Dr. Newell as party from the action. You are asking me to make a partnership order in the absence of one of the partners. I shall make an order as against Messrs. Crockford and Adler, for an account of all moneys or properties received by them or either of them in respect of the particular asset or the sale of it. There will be an order for costs against the personal defendant up to the time when the

company was joined as defendants, and by consent an order on the company to pay the costs subsequently.

A Deal in Bottles.—In Shoreditch County Court, London, on March 3, Mr. Myer Levy, rag merchant, Annis Road, E., sued Mr. Arthur W. Shoobert, metal merchant, Capworth Street, E., to recover the sum of £18 on a dishonoured cheque. The defence was that the plaintiff verbally contracted to sell to the defendant four cases purporting to contain 40 gross of amber glass tablet bottles, and 18 casses of green glass tablet bottles, for £18, and a cheque was duly sent. The following day the goods were delivered, when on examination it was found there was only one case of amber bottles, the other three being green. The value of the bottles delivered was said to be only £8, and the defendant claimed £10 as damages for breach of contract. Mr. Levy, giving evidence, said the defendant called at his premises with a friend and bought the 22 cases, after examination. When he received the cheque he sent a receipt, which said, "Job lot bottles, all at £18." In cross-examination, he said that he never saw the bottles before purchasing them. Bottles were not in his line; he was not a judge of them, and had no idea whether amber bottles were more valuable than the others. Mr. John Levy, brother of the plaintiff, said he was present when the purchase was made. Every case was opened and examined. The defendant, in the witness-box, stated that on the day in question he took a Mr. Childs with him, and they looked at a couple of cases; no more were open. They examined on the top, and did find ambers; so, on the assurance of the plaintiff that there were 40 gross of ambers, he agreed to pay £18 for them. Mr. William John Childs, Eaton Glass Works, Leyton, said he went with the defendant to the plaintiff, and it was definitely stated to them that there were 40 gross of ambers. They looked into two or three of the cases, the plaintiff having left them to examine what they liked. In cross-examination, the witness admitted that no attempt was made to prevent him seeing any of the bottles. Judge Cluer said that it seemed to him incredible that the plaintiff, who knew nothing about bottles, should have stated any definite number. It was clear that the defendant saw a lot of amber bottles, and thought he had made a good bargain. There would have to be judgment for the plaintiff for the £18 claimed, with costs.

Dangerous Drugs Act Cases.—At Grays Police Court, on February 20, Francis O. Renwick, described as a veterinary surgeon, and Sarah Renwick, his wife, were charged with being in unlawful possession of 1 oz. of cocaine and 24 drachms of morphine. They were further charged with illegally importing and concealing cocaine and morphine at Tilbury. The defendants were fined £2 each on the first charge, and the second was withdrawn.

At Long Eaton, on February 24, Mr. Charles Ridley, a chemist in the employ of the Long Eaton Co-operative Society, was charged with having unlawfully supplied a woman named Smedley with laudanum. Mr. B. W. Moore, prosecuting, stated that Smedley had been obtaining laudanum from defendant for some considerable time. On the first occasion she had a prescription, but on every other occasion no prescription had been supplied. Inspector Vardy, cross-examined for the defence, admitted that Mr. Ridley had been quite open and honest. If he had not made an entry in the register respecting the sale, the police would not have known of the offence. The magistrates imposed a fine of 20s.

At Woolwich Police Court, London, on February 26, John Ford (42), fruiterer, was charged on remand with unlawfully having in his possession a quantity of cocaine without being licensed or authorised. A Government analyst now said that one packet submitted to him had been found to contain 12 gr. of a white powder consisting of 45 per cent. of cocaine hydrochloride and 30 per cent. of white arsenic. Ford, in evidence, said he was a trainer of trotting horses. He did not know the packets contained cocaine, and when he arrived home from America he took them to a chemist to have them analysed. Had he known any of them contained cocaine

he would not have had anything to do with them. The magistrate said he did not think that Ford was engaged in smuggling cocaine, but he had committed slightly more than a technical offence, and would be fined 20s.

At Kingston-on-Thames Borough Police Court, on February 28, Loftus Gerald Moller Le Champion, Richmond, Surrey, was charged with being an unauthorised person in possession of 20 gr. of morphine. Mr. Richard Evans, chemist and druggist, Surbiton Park Terrace, Kingston, said that since September last Mr. Le Champion had brought him prescriptions, signed by a Dr. Porter, for morphine tablets, which witness had made up. On Thursday Mr. Le Champion brought a prescription bearing the signature, "N. Cartwright." The witness pointed out that there was a discrepancy between this and the previous prescriptions, and also that he did not know the doctor or his qualifications, so that he could not supply him. Mr. Le Champion then assured him that it was "perfectly all right," adding that he was in intense pain. Mr. Le Champion also assured him that the doctor was the same man who had accompanied him to the shop late one night in January; on that, he made up the prescription. Afterwards he tried to verify the prescription and the doctor by telephone, and in consequence of what he heard he gave information to the police. In reply to the chairman, Mr. Evans said he had never before had a prescription purporting to be from Dr. Cartwright. Mr. L. M. Cartwright, dental surgeon, Kew, stated that the defendant was a friend of his, and apparently had taken a piece of embossed paper from his house, written the prescription, and signed it in the witness's name. He had accompanied the accused to Mr. Evans's pharmacy when he had been to purchase chemicals on a previous occasion. In reply to a question from the Bench, the witness said he was not qualified to write a medical prescription. The detective in charge of the case asked for a remand, stating that it was necessary to inform the Home Office of the matter and to make inquiries as to other prescriptions. The defendant was remanded on bail until March 10.

Bankruptcy Reports

Re John McLanachan, 84 Chester Street, Wolverhampton, chemist.—The public examination was held on February 11 at Wolverhampton. The debtor stated that he purchased the business in October 1923, but it was unsuccessful owing to competition and lack of capital. A relative took over the business and was liquidating the debts. The case was adjourned.

Re Frederick James Wright, 16 Whitworth Road, Gosport.—The public examination of the debtor took place at Portsmouth recently. The statement of affairs showed liabilities £247 and assets £2 6s. (C. & D., January 24, p. 112.) The debtor said that the drug store would have been sufficient to keep him had it not been for heavy interest on loans. He was asked why he did not file his petition instead of giving a preference to one creditor. He said he thought the agreement when the loan was made gave a claim to his assets. He was not aware that it was not a legal charge. Before he sold the business he advertised it, and refused an offer of £600. The examination was closed.

Re Pierre Marcotty, 129 Cannon Street, London, E.C., chemical merchant and agent.—An application for an order of discharge was made at the London Bankruptcy Court on February 6. Mr. F. T. Garton, official receiver, reported that the provable debts amounted to £1,958 (C. & D., I, 1922, p. 134), while the assets, valued at £85, had realised only £11, and it was not expected that anything further would be recovered. The discharge was opposed by the official receiver on the grounds of insufficiency of assets to equal 10s. in the £, and omission to keep proper books of account. After hearing evidence in support of the application, the registrar granted a discharge, subject to judgment for £20, to be satisfied by an immediate cash payment.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

DAE HEALTH LABORATORIES, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists and druggists, etc. The directors are: H. Holmes and S. A. Walton. Solicitor: T. H. Goodwin, 14, Coleman Street, London, E.C.

H. C. TAYLOR, LTD. (P.C.).—Capital £5,000. Objects: To adopt an agreement with H. C. Taylor and to carry on the business of chemical analysts, chemists, druggists, oil and colourmen, etc. R.O.: The Laboratories, Prestwich Park, Bury New Road, Prestwich.

M. SMITH & SON, LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers and sellers of Mark Smith's Yellow Oils, sheep dip and chemical manufacturers, sheep dippers, seed crushers, oil extractors, etc. The directors are: M. Smith and M. E. Smith. R.O.: Riverhead, Louth.

J. M. FAIRBAIRN, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of chemists, druggists, dray-salters, oil and colourmen, etc. The directors are: J. M. Fairbairn, 2 French Road, Blackburn, and J. S. Snell, 13 Owen Street, Accrington. R.O.: 10 Fleming Square, Blackburn.

A. J. WATTS, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of A. J. Watts, 11 St. David's Road, St. Annes-on-Sea, and to carry on the business of wholesale and retail chemists and druggists, stationers, pharmacy proprietors, dealers in photographic supplies, scientific instruments and fancy goods, etc. The directors are: A. J. Watts and A. A. Watts. R.O.: 11 St. David's Road South, St. Annes-on-Sea.

WEST, CHEMISTS, LTD. (P.C.). Capital £100. Objects: To acquire from A. McMillan the business carried on as "West, Chemist," at 54a, Broad Street, Golden Square, W., and to carry on the business of chemists, druggists, opticians, wine and spirit merchants, stationers, dealers in photographic goods, etc. The directors are:—A. McMillan and Mrs. Mary R. McMillan. R.O.: 54a Broad Street, Golden Square, London, W.

INSTITUTE OF COMMERCIAL RESEARCH, LTD. (P.C.).—Capital £100. Objects: To furnish statistical reports on and general information in connection with home, colonial and foreign markets and businesses, to report on all business propositions, oil bearing and other properties, transport facilities and customs duties, and on patents or patent rights and suggest patents and organise any existing or new business and conduct chemical analyses, etc. The directors are: M. E. Day and R. R. H. Haworth. R.O.: 7 Southampton Row, London, W.C.2.

BOWMAN REMEDY COMPANY OF GREAT BRITAIN, LTD. (P.C.).—Capital £2,500. Objects: To adopt an agreement with Major Alastair D. Macdonald (on behalf of the Erick Bowman Remedy Co. of Canada, Ltd.), and to carry on the business of a manufacturer and seller of the Bowman Remedy for cattle and other medicines or remedies for cattle and other animals now carried on by the said Alastair D. Macdonald (on behalf of the said Canadian Co.) at the North Parade, Worcester. The directors are: C. W. D. Perrins, Major A. D. Macdonald, and H. Seddon.

W. H. DALE & CO., LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of a tar distiller, manufacturer of tar by-products, oils, greases and fats, paints, varnishes, disinfectants, sheep dips, road preparations, insecticides, fungicides, and manufacturers of chemicals, pharmaceutical preparations and dyeing materials now carried on by W. H. Dale at Tyldesley, Lancs, and to adopt agreements (1) between W. H. Dale of the one part, and H. T. Tomkins and G. H. Wood of the other part, and (2) with the said H. T. Tomkins. Solicitor: W. G. French, 20 North John Street, Liverpool.

PARFUMS CHANEL, LTD. (P.C.).—Capital £100. Objects: To carry on in the United Kingdom of Great Britain and Northern Ireland, the Irish Free State,

the Commonwealth of Australia and the Dominion of New Zealand any trade or business connected with the purchase and sale of essences, lotions, extracts, oils, soaps, cosmetics, creams, unguents, pomades, powders, preparations for the teeth and hair, rouge, paints, satchets, toilet requisites and preparations, perfumes, scents, salts and perfumery goods of all kinds and descriptions; manufacturers of boxes, cases, packets, bottles and other receptacles and materials for making the same, etc.; to acquire the exclusive right to use the name "Chanel" in respect of perfumery sold by the company within the above countries and certain other rights; and to adopt an agreement between Les Parfums Chanel, S.A. (incorporated in France) of the first part, Gabrielle Chanel of the second part, and the company of the third part. The directors are: P. L. Wertheimer, 72 Rue Boissiere, Paris, and P. J. Wertheimer, 3 Rue du General, Appert, Paris.

ELECTRO BLEACH AND BY-PRODUCTS CO., LTD.—The net profit for 1924 was £48,489, plus £3,291 brought in; a final dividend of 6½ per cent. is proposed on the preference capital, making ten per cent., and a dividend on Ordinary shares of 13 per cent., making 20 per cent., less tax. £10,000 is placed to reserve and £1,780 carried forward.

BOVRIL, LTD., have declared a final dividend at the fixed rates on the Preference and Ordinary shares, together with a dividend of 5½ per cent. and a bonus of 2½ per cent. on the Deferred shares. This will make a total distribution on the Deferred shares for 1924 of 12½ per cent., free of tax, against 11½ per cent., free of tax, for 1923.

GAS LIGHT AND COKE CO., LTD.—In the course of moving the adoption of the report at the annual meeting at the chief office of the company, on February 6, Mr. D. Milne Watson (the governor of the company) said: "You will remember that last year I told you that a shareholder had unsuccessfully brought an action against us in the law courts to prevent the company from manufacturing caustic soda. It was admitted that it was not so much the immediate question of the caustic soda as the principle of preventing the company from manufacturing substances required in treating their residuals. We found that caustic soda could be made by us more cheaply than it could be bought, and, therefore, we put up a plant for its manufacture. The shareholder concerned, who is secretary to the Castner Kellner Co., and represents a group of manufacturers, carried the matter to the Court of Appeal, and we again got a decision in our favour. This is satisfactory from the company's point of view, but we hear that the appeal is to be taken to the House of Lords, so there is nothing more to be said until that tribunal gives its decision."

INTERNATIONAL SPONGE IMPORTERS, LTD.—The annual meeting was held on March 3 at Winchester House, London, E.C., Mr. Herbert B. Marks (the chairman) presiding, and in moving the adoption of the report and accounts (C. & D., February 28, p. 296) said that the trading of the company during the past twelve months had resulted in an available net balance of £9,041, against £7,579 in the previous year. This allows of the payment of the preference dividend and the carrying forward of £2,369 against £828, subject to reserve and corporation profits tax. The business during the past year had not been an easy one for the directors. Home trade had been fully maintained, but the reopening of the Continental markets is very gradual. The chairman referred to the rebuilding of the company's properties in Hounds-ditch and Bevis Marks House, all of which are contiguous to the Baltic and the new Lloyd's building. The directors are satisfied that these properties will eventually provide a substantial source of revenue to the company. The report and accounts were unanimously adopted. Mr. Ernest J. Cresswell and Mr. Stanley Cohen were re-elected directors.

GILLETTE RAZOR CO., LTD.—The net earnings expanded from \$8,411,776 to \$10,122,473 in 1924. The figure on this occasion was struck after allowing for taxes, reserves,

etc., whereas previously the allocations have been made after striking the net profit. The usual quarterly dividends have been paid during the year, totalling 12 per cent., and a stock dividend of 5 per cent. was paid in June and again in December. The progress of the company during the past seven years is shown by the following table:—

	Net earnings	Number of razors sold	packets of extra blades sold
1918	\$5,252,136	4,580,987	12,895,618 (twelves)
1919	6,025,350	2,315,892	17,320,517
1920	6,803,407	2,090,616	19,051,268
1921	7,008,564	4,248,069	19,531,861
1922	7,602,939	3,420,895	24,082,970
1923	8,411,776	7,798,781	29,061,634
1924*	10,122,473	8,438,576	42,604,498 (tens)

* After allowing for reserves, taxes, etc.

The report states that having in mind the advisability of getting dividend disbursements to shareholders, on a cash basis only, the shareholders approved an increase in the authorised shares from 500,000 to 2,000,000.

MERCER & REES, LTD.—A meeting of creditors was held on February 10 at 82 Victoria Street, London, S.W., Mr. A. Leonard, the liquidator of the company, in the chair. The liquidator reported that the liabilities amounted to, roughly, £863, and were all due to unsecured creditors. The assets consisted of stock estimated at £50, with other items making a total of £140. The business was first commenced by Mr. Mercer and Mr. Heatherington about four years ago. The company was incorporated in 1923, with a capital of £1,200. The meeting decided to adjourn in order to enable the liquidator to try to complete negotiations for the sale of the business as a going concern. The following are among the creditors:—Allen & Hanburys, Ltd., £22; R. Blackie, £19; Gale & Co., Ltd., £29; Kerfoot & Co., Ltd., £26; Proprietary & Sundries Supply Co., £16; Potter & Clarke, Ltd., £15; Willows, Francis, Butler & Thompson, £53; West Surrey Central Dairy Co., £12; Quelch & Gambles, Ltd., £10; D. & W. Gibbs, Ltd., £10; Butler & Crispe, £100.—The adjourned meeting of creditors was held on February 17. The liquidator reported that he had been in negotiation with several persons for the sale of the business. It was resolved that an offer of £450 for the liquidator's interest in the stock, fixtures and fittings at the company's address be accepted, the liquidator to retain his interest in the outstanding book debts. A committee of inspection was appointed.

JOHN J. CLARK & CO., LTD.—The statutory first meetings of the creditors and shareholders of this company (in liquidation) were held recently at the Carey Street offices of the Board of Trade. The official receiver reported that the company was registered in 1923, with a nominal capital of £1,500. The amount of capital issued was £1,313. According to the articles of association, the company was formed, among other things, to take over the business which had been carried on by Mr. F. Hankinson at 1 St. Thomas Street, S.E., and to carry on business as wholesale and retail chemists and dealers in photographic supplies. The company bought from him the fixtures, fittings and stock for £886, which he said was expended by him. On February 7, 1924, another business at 1 New Winchester Buildings, S.E., including the stock, fixtures and fittings, was bought for £187, payable in shares of the company, but it was sold, together with the stock and lease, in May for £450. About the end of August a distress was levied, and at a board meeting held on September 27 a resolution was passed confirming the sale to Mrs. Hankinson of the company's assets for £300. The failure of the company was attributed by Mr. Hankinson to high rental and rates, and to the failure of the sales to realise expectations. According to the statement of affairs, the liabilities amounted to £709, and the assets were valued at £8 19s. 6d. In the absence of any resolution, the official receiver was left in charge of the liquidation. The following are among the creditors: R. Blackie, £50; Butler & Crispe, £51; C. R. Harker, Stagg & Morgan, Ltd., £20.

Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 30,	Jan. 30,	Feb. 27,
	1924	1925	1925
Allen & Hanburys, 7% Prefd. Ord.	21 0	21 3	21 6
Amalg. Dental Co., 8% Prefd. Ord.	—	20 9	21 3
Deferred 5s. ..	—	6 9	6 6
Apollinaris and Johannis, Ord. £1..	8 9	9 3	9 6
Ayrton, Saunders & Co., 7½% Pref.	15 3	15 3	15 3
Beecham Estates & Pills, 8% cum. Pref.	21 6	21 3	21 3
Benger's Food, Ord. ..	36 6	37 0	37 0
Boake(A.), Roberts & Co., 5% Pref. £10	£6½	£6½	£6½
Boots Pure Drug, Ord. ..	123 9	125 0	127 6
Boots Pure Drug, 7% "A" Prefd. Ord.	23 6	23 6	23 6
Boots Cash Chemists (Southern), 6%			
" A " Pref. ..	21 6	21 6	21 6
Borax Consol., Defd. Ord. ..	43 0	44 0	40 6
Bovril, 6% Pref. ..	22 6	22 3	22 6
" Ord. ..	24 0	24 0	26 0
" Defd. ..	46 9	54 6	52 6
British Celanese, Ord. ..	8 0	8 9	7 9
" 7½% Pref. ..	11 0	12 3	12 0
British Cyanides, Ord. ..	9 3	7 6	7 6
British Dyestuffs Corp., 7% Pref.	12 9	11 9	10 9
" Prefd. Ord. ..	6 6	5 9	5 3
British Glues and Chemicals, Ord. ..	4 0	4 6	4 6
" 8% Pref. ..	12 3	15 0	15 3
British Oil and Cake Mills, Ord. ..	24 6	25 6	25 6
British Oxygen, Ord. ..	35 6	35 0	35 3
British Photographic Industries, 6% Cum. Pref. ..	5 0	8 1½	9 0
Brunner Mond, Ord. ..	38 9	42 6	41 0
" 7½% Pref. ..	28 6	28 6	28 9
Bush (W. J.) & Co., 5% Pref. £5	67 0	66 0	62 6
Cadbury Bros., 6% Pref. ..	24 0	24 6	24 0
Callard, Stewart & Watt, Ord. ..	31 3	31 3	32 6
Crossfield (Joseph) & Sons, 6½% Pref.	17 6	17 6	17 6
Dubarry Perfumery, Ord. "1s. ..	20 3	20 3	20 3
" 7½% Pref. ..	4 6	5 0	5 0
Eastman Kodak Com. (no Nom. Value)	19 3	18 6	18 6
" \$118½	\$119½	\$120	
Evans Sons Lescher & Webb, Ord. ..	5 0	6 0	6 0
" 5% Pref. ..	7 9	9 3	9 0
Field (J. C.) & J., Ord. ..	16 3	17 0	16 3
" 7% Pref. ..	20 0	20 3	20 3
Gossage (William), 6½% Pref. ..	19 9	19 9	20 0
Grout & Co., Ord. ..	50 6	48 0	51 9
Heppells, 7% cum. partic. Pref. ..	17 6	17 6	21 3
Idris & Co., "A" Ord. ..	17 6	16 6	15 6
Ilford, Ltd., Ord. ..	24 0	25 0	27 0
" 6% Pref. ..	19 3	20 0	19 6
Intern. Sponge Importers, 6% Pref.	10 6	11 0	11 3
Kent (G. B.) & Sons, 5½% Pref. ..	13 0	13 0	13 3
Knight (John), 25% Prefd. Ord. ..	63 0	61 9	61 3
Lever Bros., Ltd., 7% Pref. ..	21 6	21 7½	22 0
" 8% Pref. ..	21 3	21 0	21 7½
" 20% Prefd. Ord. 5s. ..	11 0	10 10½	10 9
Liebig's Ext. of Meat, Ord. £5 ..	£15½	£15	£15
Mellin's Food, 6% Pref. ..	12 0	12 0	11 6
Mond Nickel Co., Ord. ..	44 6	46 3	43 3
" 7% Cum. Pref. ..	25 6	25 9	25 0
Nathan (Joseph) & Co., 7% Pref.	15 0	14 6	14 9
" 8% Prefd. Ord. ..	7 6	8 0	7 6
National "Drug" and Chem. Co. of Canada, 6% Pref. ..	15 0	15 0	15 0
New Transvaal Chemical Co., 6% Pref.	17 6	17 3	17 6
" 8% Pref. ..	21 0	20 3	20 6
Salt Union, Ord. ..	28 6	27 9	29 6
" Pref. ..	29 6	29 6	30 0
" Sanitas," The Co., 9% Pref. ..	25 0	24 3	24 3
Schweppes, Ltd., Ord. ..	21 0	22 0	22 3
" Defd. ..	29 3	29 0	29 6
Smith (Stephen) & Co., 6% Pref. ..	29 6	31 6	32 0
Southall Bros. & Barclay, Ord. ..	57 0	57 0	56 6
" 5% Pref. ..	19 0	19 0	19 0
Spratt's Patent, Ord. ..	40 0	42 6	45 6
Stevenson & Howell, 6½% Cum. Pref.	20 0	20 0	20 0
United Alkali, Ord. ..	39 0	41 0	41 3
United Glass Bottle Man., 7% Mt. Deb. Stk., £100 ..	£102	£103	£103½
Venesta, Ltd., Ord. ..	26 6	26 6	25 3
" 7% Pref. ..	20 0	20 9	21 0
Veno Drug Co., 8% Pref. ..	—	—	20 0
Viro, Ltd., Ord. ..	82 6	85 0	85 0
" 7% Pref. ..	23 0	22 6	23 0
White (A. J.), Ltd., Ord. 10s. ..	7 0	7 3	6 6
White (R.) & Sons, 6% Pref.	16 9	16 3	17 0
" Prefd. Ord. 10s. ..	6 6	7 0	6 9
Wright, Layman & Umney, 6% Pref.	19 6	19 0	19 6

English Peppermint Oil

THE unprecedented rise in the price of American peppermint oil, which, at nearly 65s. per lb., is for the moment practically on the same level as English peppermint oil, has been attracting the attention of manufacturers to the English article. As everything points to a famine in peppermint oil before the next crop of American arrives it is probable that this unique situation will not for long remain. The production of English peppermint oil, which is required in considerable quantity by certain manufacturers, is carried on by a number of well-known English distillers, among whom are Mr. Joseph Seymour,

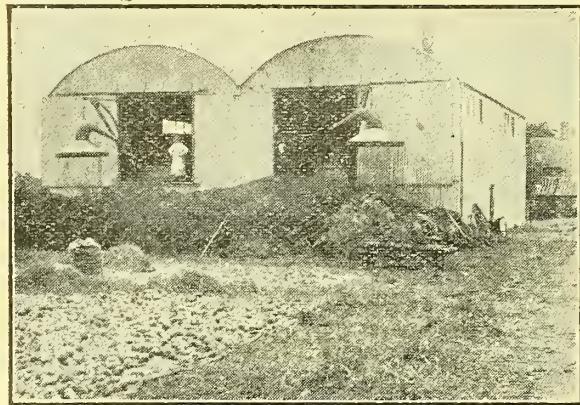


FIG. 1.—THE PEPPERMINT OIL STILLS

Showing charges of the herb ready for distillation. In the foreground poppy heads are drying.

Holbeach, Lincolnshire. Mr. Seymour has sent us several photographs of his farm and distillery, a selection of which is produced below. It is over seventy years ago since the firm commenced the cultivation and distillation of English peppermint oil with the same attention to quality as holds good to-day. The only difference is the natural one of growth, for two modern stills, which are capable of treating a surprisingly large quantity of herb, have replaced the comparatively small apparatus of these early days. In an illustration given below (Fig. 2) the actual harvesting of the herb is seen in progress. When the weather is suitable, and when the crop is matured, from early dawn the workers are kept busy in supplying the giant

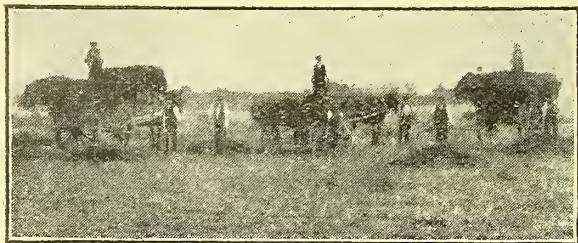


FIG. 2.—HARVESTING THE HERB

stills. These stills (Fig. 1) combine the most up-to-date improvements, in addition to which the proprietor has invented many private devices. Anyone who has had an opportunity of visiting the farm when the harvesting and distilling operations are in progress cannot fail to be impressed by the care taken to produce an oil worthy of the high position held by English peppermint oil.

From a neighbouring farm an extensive area of dill seed supplies Mr. Seymour with the raw material for English dill oil, which has made a name for itself on the English market, as well as among discriminating buyers overseas. The yield from this year's seed has produced one of the

very best oils that has been distilled. Among the other activities of this farm is the cultivation of poppies, and the busy scene at the time of collection is illustrated



FIG. 3.—COLLECTING THE POPPY HEADS

above (Fig. 3). In connection with the poppy crop only the finest heads are collected, all inferior grades being discarded.

Retail Pharmacists' Union

Executive Meeting

IN conjunction with the Chemists' Defence Association, Ltd., a meeting of the Executive of the Retail Pharmacists' Union was held at 19 Tavistock Square, London, on February 24. Mr. A. R. Melhuish was in the chair, and there were also present Messrs. Clubb, Forster, French, Gillegahan, Hague, Hardy, Jackson, Keall, Keith, Marshall, Martin, Phillips, Rowsell, Scholes, Smalley, Trammer and Young.

Claims against the Chemists' Defence Association included two for damage caused by transposed labels and a serious mistake in dispensing.

The Executive of the Retail Pharmacists' Union approved of a pamphlet dealing with the Labelling of Poisons Order. In regard to the cutting of prices, it was decided to discuss alternative methods of price protection at the R.P.U. Conference. The subject of national co-operative advertising was referred for discussion at the Conference, and the secretary was authorised to negotiate with the Board of Customs regarding wine licences. The testing of dispensing scheme, it was reported, had been officially adopted by the Ministry of Health, and was to be put into operation at an early date. In connection with price protection, the secretary was instructed to approach the makers of Battle's Vermin Killer, and also to protest against the margin of profit upon which Elliman's had been placed upon the P.A.T.A. In addition, the profit on dispensing specialities was considered with a view to steps being taken to improve the margin. A report was received regarding the recent propaganda in connection with a number of articles which are not yet on the P.A.T.A. The chairman intimated that he thought matters were proceeding very satisfactorily.

Sheffield.—A joint meeting of the panel chemists and the local R.P.U. Branch was held recently under the chairmanship of Mr. J. T. Appleton, who gave an outline of the Insurance work, showing the steady increase for several years in the number of prescriptions. The secretary gave a detailed account of the last test of Insurance dispensing, which showed a marked improvement. Chemists have successfully complained against a patient and against a doctor for issuing an incomplete prescription, and afterwards directing the customer to another chemist; in the case of the incomplete prescription, the secretary was instructed to offer the meeting's best thanks to the chemist for the trouble he had taken.

Poisons Schedule Revision

(From "The London Gazette," March 3, 1925)

At the Council Chamber, Whitehall, the 26th day of February, 1925.

By the Lords of His Majesty's Most Honourable Privy Council.

WHEREAS by Section 2 of the Pharmacy Act, 1868, it is enacted that the several Articles named or described in the Schedule (A) to that Act shall be deemed Poisons within the meaning of that Act, and that the Council of the Pharmaceutical Society of Great Britain may, from time to time, by Resolution, declare that any Article in such Resolution named ought to be deemed a Poison within the meaning of that Act, and that thereupon the said Society shall submit the same for the approval of the Privy Council; and that if such approval shall be given, then such Resolution and approval shall be advertised in the London Gazette; and, on the expiration of one month from such advertisement, the Article named in such Resolution shall be deemed to be a Poison within the meaning of that Act:

And whereas by Section 1 of the Poisons and Pharmacy Act, 1908, it is enacted that Schedule (A) to the Pharmacy Act, 1868, be repealed, and the Schedule to the Poisons and Pharmacy Act, 1908, substituted therefor, and that the said last-named Schedule may be amended by adding thereto or removing therefrom any Article in the manner provided by Section 2 of the Pharmacy Act, 1868:

And whereas the Council of the Pharmaceutical Society of Great Britain did on the 6th day of August, 1924, by virtue and in exercise of the powers vested in them by the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, resolve and declare as follows:—

"That by virtue and in exercise of the powers vested in the Council of the Pharmaceutical Society of Great Britain, the said Council doth hereby resolve and declare that the Schedule to the Poisons and Pharmacy Act, 1908, ought to be amended in manner following, that is to say:—

"1. By omitting the word 'medicinal' from the words 'arsenic and its medicinal preparations' occurring in Part I of the said Schedule.

"2. By omitting the word 'vegetable' from the description 'alkaloids, all poisonous vegetable alkaloids not specifically named and their salts and all poisonous derivatives of vegetable alkaloids' occurring in Part I of the said Schedule.

"3. By adding to Part I of the said Schedule:—

'Cannabis (the dried flowering or fruiting tops of the pistillate plant of *Cannabis sativa*) and the Resins prepared therefrom. Digitalin and all other poisonous constituents of Digitalis. Strophanthin and all other poisonous constituents of Strophanthus. Tobacco: any preparations or admixtures of (other than Tobacco prepared for smoking and snuff) containing the poisonous alkaloids of Tobacco.'

"4. By adding to Part II of the said Schedule:—

'Barium, Salts of, except Barium Sulphate.'

"5. By omitting from Part II of the said Schedule the words:—

'All preparations or admixtures which are not included in Part I of this Schedule and contain a poison within the meaning of the Pharmacy Acts except preparations or admixtures the exclusion of which from this Schedule is indicated by the words therein relating to carbolic acid, chloroform, and coca, and such substances as come within the provisions of Section 5 of this Act,' and by substituting therefor the words:—

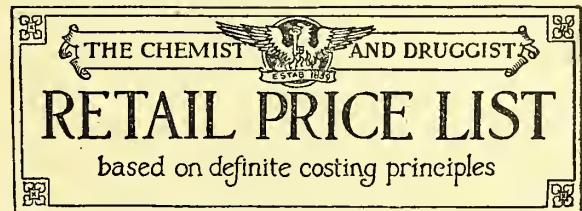
'All preparations or admixtures which are not included in Part I of this Schedule and contain a poison within the meaning of the Pharmacy Acts, except Tobacco prepared for smoking and snuff, machine-spread lead plasters, preparations or admixtures the exclusion of which from this Schedule is

indicated by the words therein relating to carbolic acid and chloroform, and except such substances as come within the provisions of Section 5 of the Poisons and Pharmacy Act, 1908.'

And whereas the said Society have submitted their Resolution for the approval of the Privy Council, and the Lords of the Privy Council are of opinion that the said Resolution should be approved:

Now, therefore, Their Lordships are hereby pleased to signify their approval of the said Resolution.

M. P. A. HANKEY.



FEW changes are recorded during the past month in index drugs, the figure being 159.0. The price of camphor is reduced, while waxes, ol. menth. pip. and its preparations continue to rise. A few other drugs, such as lobelia and cinnamon, have advanced, but the trend of prices has been towards steadiness. Owing to a fall in the price of all dressings, the index figure for these drops from 252.6 to 239.6, which is the lowest since January 1924. The following are the chief alterations in the cost and selling prices since those given in the C. & D., Feb. 7, p. 192, and enable chemists to revise the Price List up to March 1:—

	Cost	Selling Price (solid or liquid)					
		1 lb. or as stated	16 oz.	4 oz.	1 oz.	1 dr.	Gr. or fl.
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Camphora (4-oz. tab.)	5 6				0 8	—	—
Cera alba in massa ..	3 2	4 9	1 5	0 5	—	—	—
Cera flav. exot. ..	2 10	4 3	1 4	0 5	—	—	—
Chloralose .. oz.	12 0	—	—	—	3 6	1 3*	—
Copaiba opt. ..	5 4	8 2	2 5	0 9	—	—	—
Ess. menth. pip. (exot.) 1-10 ..	30 0	—	—	3 5	0 7	—	—
Ext. tarax. pulv. ..	10 6	—	4 8	1 5	0 3	—	—
Inf. cascaril. conc. ..	5 9	—	2 7	0 9	—	—	—
Lobelia pulv.	4 9	7 2	2 2	0 8	—	—	—
Ol. linet. dest. ..	14 0	—	6 0	1 8	0 3	—	—
Ol. menth. pip. redest. ..	90 0	—	—	10 0	1 6	—	—
Pulv. catechu co. ..	5 9	—	2 6	0 9	0 2	—	—
Pulv. cinnam. co. ..	8 6	—	3 9	1 0	0 2	—	—
Spt. cinnam. ..	33 0	—	—	3 8	0 7	—	—
Spt. menth. pip. exot. ..	32 0	—	—	3 7	0 7	—	—
Tr. iodi (French Cdx.) ..	11 6	—	4 6	1 3	0 21	—	—
Ung. chrysarob. ..	3 0	4 6	1 4	0 5	0 1	—	—

UNSKIGHTLY ADVERTISEMENTS.—Fines were imposed by the Hove county magistrates, on February 23, on five defendants who had been summoned for exhibiting posters at Patcham so as to disfigure the landscape. The proceedings were taken under a by-law made under the Advertisements Regulation Act, 1907.

COLOUR IN ADVERTISING.—Lecturing in London on February 23, Mr. P. J. Bovill suggested that the basis of successful advertising was the use of as much colour as possible. In the poster class it was necessary to attract attention from a distance, and to interest people who more often than not were on the move. It was compulsory to have a bold design. Electric signs might be said to be some years behind the times as far as colour advertising was concerned.

Ideal Home Exhibition

THE ninth Ideal Home Exhibition, organised by "The Daily Mail," was opened at Olympia, London, W.14, by Princess Marie Louise on March 2, and remains open till March 25. The more spectacular features—the Queen's Dolls' House, the ten furnished houses, and the twelve landscape gardens—were attracting the bulk of the public on the day of our visit; the photographic and toilet stands, however, were not without their quota of inquirers after wisdom, and organising skill had effected a state of complete preparation all too rare at exhibitions on opening day. A word of praise must also be given to the efficient catalogue. The chief feature from the point of view of *C. & D.* readers was the variety of goods in the

Photographic Section

The photographic section of the Exhibition has again taken the place of the Photographic Fair, compared with which it is on a distinctly smaller scale. The aim of the exhibitors has evidently been to enlist popular interest, and, to achieve this end, demonstrations of various processes are being given at almost every stand. Progress and invention, particularly in regard to cameras, do not appear to have advanced at a corresponding rate to former years, though some of the plate and film makers state that they intend to put film packs on the market almost immediately. The exhibitors are all well known to photographic dealers, and their stands are dealt with in the following paragraphs:—

DAVID ALLAN is exhibiting, in addition to a remarkable array of developing tanks and dark-room lamps, the Baby Ciné camera and projector made by Pathé Frères and recently advertised in the *C. & D.* The moderate price at which the complete apparatus sells (£7 10s. and £6 15s. respectively) brings within reach of the average family the means of making their own cinematograph films, apart from those which may be hired. The camera can be loaded in daylight, and each film will take more than 1,000 separate photographs, which can be enlarged to any size. The great advantage of this film is that it can be developed at will, to either a direct negative or a direct positive, enabling either the actual film to be shown by the Baby Ciné projector, or copies of the film to be printed. The camera weighs only 1½ lb. and measures 4 in. by 3½ in. by 1½ in. The Baby Ciné projector has been constructed on lines of simplicity. It shows a bright picture 4 ft. 6 in. by 6 ft. 6 in. at twenty feet from the screen, weighs 5 lb., and measures: Height 12½ in., base 4½ in. by 7½ in. The projector can be worked by hand or connected to the domestic electric current. The film is non-inflammable, and can be developed by the agents or by the amateur himself.

BURROUGHS WELLCOME & Co. show interesting examples of work done with tabloid photographic chemicals. The bromide enlargement of Frozen Lake Camp, with Mount Everest in the background, recalls that tabloid Rytol has been the chosen developer of the official photographer of the three Mount Everest expeditions. The "Taj Mahal by Moonlight," toned with tabloid blue toner, is the subject of a second enlargement, while a third provides an example of the rich browns obtainable with tabloid sepia toner. Other photographs illustrate the use of various developers, chromium intensifier, ammonium persulphate, and potassium ferricyanide in tabloid form, and Soloid photographic stains. The simplicity of present-day photography is strikingly demonstrated by an exhibit of an old-time bulky photographic chest, comprising the essential chemicals, solutions, and scales, in juxtaposition with the compact modern outfit of tabloid photographic chemicals. A practical demonstration of the ease with which correct exposure can be calculated is given by means of a giant model of the Wellcome Exposure Calculator, so arranged that visitors can test the instrument themselves.

HOUGHTONS, LTD., are showing a range of cameras at prices suitable for all pockets. The Ensign roll-film

reflex has, we understand, proved most popular among moderate-priced models, and a still greater demand for it is anticipated this year. The Ensign-Speedy film is well in evidence, as are the less showy but equally necessary developing trays, mounts and other accessories.

ILFORD, LTD., as would be expected, have a display which emphasises in a striking manner the advantages to be gained by the use of panchromatic plates, in the manufacture of which the company are specialists. Negatives on Ilford roll films, Zenith, Iso-Zenith Special Rapid, Auto-filter and other plates, together with prints from them, are shown to advantage. The last-named plates have a speed of 400 H. & D., are colour-sensitive, but require no filter. Demonstrations are being given to show the results obtainable on Intona, Hyptona bromide and gaslight papers, and P.O.P.

THE IMPERIAL DRY PLATE CO., LTD., have an interesting exhibit at which demonstrations are being given of the results obtainable on the company's gaslight paper and the developing of their plates with a desensitised backing, which, it may be mentioned, is stainless. Imperial films, papers, exposure meters and light and cloud filters are well to the fore, the enhanced effect obtainable by use of the last-named being well illustrated. Attention is also called to the company's "D. & P." service, which has been much appreciated by chemists. Film packs identical with the roll films are to be introduced shortly.

JOHNSON & SONS (MANUFACTURING CHEMISTS), LTD., are giving particular prominence to those of their specialities as are required by the amateur, to whom they wish to prove that photography can be an all-the-year-round hobby. Demonstrations of various processes are being given, and at the time of our visit the dye-toning of prints was arousing considerable interest.

Other exhibitors in this section include: AMALGAMATED PHOTOGRAPHIC MANUFACTURERS, LTD. (cameras); W. BUTCHER & SONS, LTD. (cameras); E. B. FRY, LTD. (accessories); GEM DRY PLATE CO., LTD. (plates, films and papers); THOMAS ILLINGWORTH & CO., LTD. (films and papers); JOHNSON, MATTHEY & CO., LTD. (precious metals); KODAK, LTD. (cameras, Ciné-Kodak, films and papers); V. K. ROTARY CO., LTD. (Grip-fix paste); WELLINGTON & WARD, LTD. (plates, films and papers).

Other Displays

Among exhibits other than photographic we noticed the following:—

AN AMAMI stand is laid out with special reference to hair culture. An expert is in attendance; microscopical examination and free advice are available, and public interest is certain to be stimulated by this novel feature as well as by the striking colour scheme.

W. B. CARTWRIGHT, LTD., concentrate on a display of Elfrieda toilet preparations. The effective lay-out of Messrs. Cartwright's *C. & D.* advertisements raises preliminary expectations in the mind of the visitor to this stand, and these expectations are realised in a clever and artistic show.

THE ERASMIC CO., LTD., have a comprehensive exhibit in which Peerless Erasmic soap predominates—not, however, to the exclusion of "La Reine d'Egypte" perfume, nor to that of the company's new Baby Cream, in the designing of which the services of a well-known artist have been requisitioned. A topical feature is a collection of samples under the title "Ideal Homes."

D. & W. GIBBS, LTD., have a striking and varied display of toilet preparations; to catalogue them would be tedious, but they are worth a visit. A feature of note is the distribution of "Ivory Castle" samples at a nominal charge.

C. R. HARKER, STAGG & MORGAN, LTD., devote their stand to Peldo, the "invisible glove" which obviates bad soiling of the hands with grease and grime. We found ourselves reading, as we left the stand, a folder that struck us as a very effective "silent salesman."

The stand of THE HORLICK'S MALTED MILK CO. was doing a brisk trade, when our representative called, in assuaging hunger, thirst, or both. Chemists who are not too old to pick up hints may perhaps learn something, in passing, on the subject of preparing beverages of this kind.

KOLYNOS, INC., make a distinctive appeal to the passer-by by dressing their staff in crinolines designed in striking colours. The crinoline is apparently destined to a second period of popularity on the score of its quaintness as a decoration, and the makers of this dental cream have been prompt in availing themselves of a novel bid for custom.

Well placed at a corner of the gallery, the exhibit of THE OATINE Co. includes a demonstration of Oatine being made, with a businesslike array of jars in readiness to receive it, and a fragrant odour enveloping the wayfarer. Sales should result.

A. & F. PEARS, LTD., have adopted an idea at once distinctive and novel by devoting their stand to Ivostrip, which, as most *C. & D.* subscribers know, is their latest invention in shaving sticks. A cinematograph film, showing Ivostrip in the course of manufacture and in use, forms part of the display.

The stand of PORTER & MOORE and BUISSON FRÈRES caters for a wide range of tastes in perfume, from the well-known lavender water of the former, first made in 1749, to Messrs. Buisson's Oriental Poppy. Here are to be found some "good sellers" of established reputation.

THE SCHOLL MANUFACTURING CO., LTD., have an imposing display of their appliances for the relief or correction of foot troubles. Experts are in attendance for giving free advice, and samples of certain of the company's products are presented to visitors.

Artificial daylight is the theme of the SHERINGHAM DAYLIGHT DEVELOPMENT Co. in an effective display of lamps with their corresponding shades. We notice that among the manufacturing houses which have adopted the system are Allen & Hanburys, Ltd., Boots Pure Drug Co., Ltd., Cadbury Brothers, Ltd., and Lever Brothers, Ltd. Informative booklets are obtainable at the stand.

VINOLIA CO., LTD., have carried out a striking scheme of design at their stand, the staff being adorned with powdered wigs, and the general conception being on Wedgwood lines. Daintiness consorts with novelty, and the effect on sales should be satisfactory.

Among other exhibitors are:—ADAMS'S POLISH, LTD.; THE "BE-ZE-BE" HONEY CO.; ALFRED BIRD & SONS, LTD.; HARPIK MANUFACTURING CO., LTD. (bath crystals and spraying solutions for various purposes); THOMAS S. JACKSON & SONS, LTD. (furniture and other polishes); A. J. KRANK MANUFACTURING CO. (beauty preparations); THE "OFOME" CO. (cleanser manufacturers); PEPSODENT CO.; PRICE'S PATENT CANDLE CO., LTD.; PRICE'S SOAP CO., LTD.; THE SAVONETTE CO. (powdered soap in containers); SCHWEPPES, LTD.; THERMOS, LTD.; VIROL, LTD.; THE WILKINSON SWORD CO., LTD. (razors and scissors).

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist & Druggist,' 42 Cannon St., London, E.C.4."

QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radica's occurring in the British Pharmacopoeia, or any of the commoner radica's not mentioned in that work, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

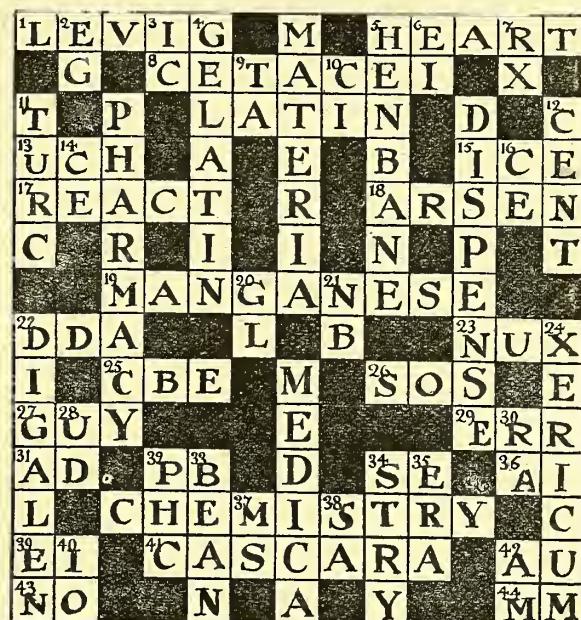
Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, March 10, on which day the samples will be posted. Students' reports will be received up to Saturday, March 21. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded

as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the fifth exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

C. & D. Crossword Puzzle

In the *C. & D.*, February 21, p. 265, we published a crossword puzzle, in which clues were given of the words which were of pharmaceutical interest, in several cases, well-known abbreviations used in prescriptions. The response has not been large, which may be due to several causes, but we prefer to think that the occupations of business do not allow a large number of chemists to give their minds to matters requiring much thought, outside strictly business activities. On account of the disclosed



words, we do not think the puzzle was too difficult, and the time given was not unduly curtailed. We opened the envelopes which had been received on March 2, and found no correct solutions, but we have decided to award the prizes in order of merit. The first prize of one guinea is awarded to Mrs. C. M. Course, 93 Darlington Street, Wolverhampton, who came nearest the correct solution, and the other two prizes (half a guinea each) are awarded to Mr. G. Hale, Ph.C., 92 Highbury Park, London, N.5, and Mr. S. G. Ventham, c/o Mrs. Wootton, 48-50 Palmerston Road, Southsea.

POLISH MEDICAL EXHIBITION.—The Thirteenth Conference of Polish Medical Practitioners and Natural Scientists will be held in Warsaw in the month of July. In this connection an exhibition of scientific, industrial, surgical and bacteriological apparatus, etc., is being organised, in which foreign firms are invited to participate.

SUDAN GUM ACACIA.—During the fiscal year 1923-1924 exports of gum acacia from the Sudan totalled 20,653 tons, against 19,370 tons in 1922-1923, consigned to the following destinations:—Great Britain, 5,588; France, 3,884; Germany, 2,342; Italy, 1,535; Belgium, 895; United States, 3,426 tons. The chief centre of production is the province of Kordofan.

Modern Physico-Chemistry in its Pharmaceutical Applications

By W. A. Whatmough

V. Work Causes a Circulation of Energy

WORK expressed in the simplest possible terms consists in moving something around; but when attention is paid to the medium it is obvious (Fig. 1) that that "something" is the medium itself. Thus doing work simplifies to a circulation of the medium, and the reader should ponder deeply upon this most fundamental of all facts. Each and every energy flow proceeds from a region of high pressure to one of lower pressure, and in causing work to be done we set up that difference of pressure (or potential) which makes energy circulate. Thus, in pushing our aeroplane through the air, a centre of high pressure is continually being generated in front of the machine, and a partial vacuum or subpressure being formed behind. The air-slip stream provides every stage in fall of potential between the two extremes, and the stream-lines of air flow represent equipotential conditions of force and resistance. The very existence of a difference of potential denotes likewise a resistance; for whenever that resistance is removed then work is done in restoring equilibrium of energy. Thus doing work sets up a difference of potential, and work being done reduces this potential, and always energy circulates while work is in progress. All the different kinds of energy flow,

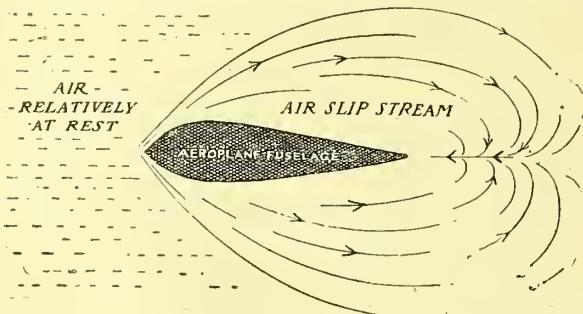


FIG. 1

Circulation of air (=energy) during passage of a stream-line body. The greater the speed, the greater is the extent of the disturbance.

whether heat (temperature), electrons (electricity) or fluids (ether, gas, or liquid) follow the simple rule of supplying energy to, or receiving energy from, the ether of space, according to whether this latter reservoir of energy is at a lower or higher level (potential)—i.e., it resists when receiving energy and accelerates motion of matter when supplying energy.

Newton's first law of motion fails because it eliminates any need for work, due to the assumption that space offers no resistance to motion (*cf.* Article III). Though it is almost like sacrilege to deny one of Newton's laws, yet the only conclusion to be deduced from a new type of electrical furnace is that ether possesses resistance because heat is generated by friction when it is made to flow past matter. Fig. 2 shows a high frequency induction furnace, consisting of an insulated chamber surrounded by a coil of wire (known as a solenoid) in which a flow of electrons (or electrical current) is reversed some 20,000 times in a second. There are no electrical connections, but the materials are melted by ether being pushed backwards and forwards as electromagnetic waves through its substance. Temperatures well over $2,000^{\circ}$ C. are attainable, which are as high as those obtained by bombardment with electrons themselves, as in ordinary carbon-arc electrical furnace.

ETHER AND ENERGY

Thus it is self-evident that the ether can no longer be ignored; and as our articles progress it will perforce intrude itself more and more in regard to the transformations of energy, sharing equally with electricity (or matter) a part in physical phenomena. Indeed, there

is a distinct probability that ether and matter are different states of the same all-pervading medium, as will be more obvious when dealing with radiant energy and the nature of an electron. The reader is probably beginning to wonder what connection there is between physico-chemistry and the subject-matter of the last three articles; but a change in motion is necessary to initiate any physical or chemical phenomenon. In so far as a body and its medium are concerned, there is only a "now" [either it is in equilibrium therewith (energy changes *nil*) or it is exchanging energy]. Confusion only arises when we introduce ourselves or our appliances either to perceive the phenomena or conceive what has happened or will happen. Nature ever laughs at our mathematical ideals, and even the new theories of relativity cannot eliminate the vagaries in the triangle of "space, time, and matter." The interrelationships of these will form the subject of the next article; but, as regards clarity in perception of relative motion and conception of change, these will have to grow in the reader's mind as the articles progress,

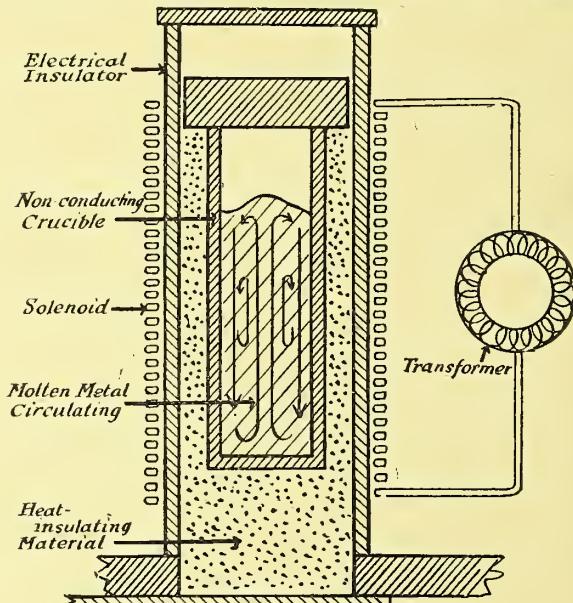


FIG. 2

High-frequency induction furnace which will melt iron or platinum in a few minutes. There are no electrodes, the electromagnetic waves (ether or heat waves) induced in the coils of the solenoid being prevented from escaping by heat and electrical insulation. [From drawing by E. F. Northrup].

for the causes of motion and the forms which it takes are not so obvious as they are assumed to be. For example, we speak of "puller" and "pusher" planes according to whether the propeller is in front or behind the aeroplane, yet both push back the air stream. However, it is far better to employ terms which are in ordinary use, so long as their limitations are recognised, for strict accuracy is impossible. It is a combination of circumstances (combustion of fuel in an engine which drives a propeller that moves air) which causes an aeroplane to fly; yet for our purposes it is sufficient to regard displacement of air as measure of effective work. Hypercritical investigation will show waste work from air eddies and in mechanical friction, etc., which affect details of aeroplane or engine design, but not the principles of energy flow. By holding to principles it is easy to work out effects. Thus, as the aeroplane is much heavier than air, it would fall unless an equal weight of air pressed it upwards. If the engine cannot maintain this equilibrium, then the aeroplane speed increases as it falls, and work from the air tends to restore equilibrium again. Conversely, if engine speed increases, the aeroplane rises in regaining working equilibrium.

League of Nations

THE two conferences summoned by the League of Nations, one to suppress the use of opium for smoking and the other to limit and control the manufacture of narcotics, finally terminated their long labours, punctuated by a series of crises, deadlocks and dramatic surprises, by the adoption of two Conventions. Our readers have been kept fully informed of the course of events and of the draft proposals submitted by the various commissions and sub-committees throughout the time that both conferences were in session (*C. & D.*, November 15, p. 719; November 22, p. 744; December 6, p. 816; December 20, p. 885; January 17, p. 75; January 31, p. 162; February 14, p. 222); however, in view of the many fundamental alterations and extensions to the original provisions of the Hague Opium Convention of 1912, embodied in both instruments, we publish the full text of both agreements in the form in which they were signed.

Opium Conference

The first conference, which began its labours on November 3, in the words of M. H. Zahle, President of the Second Opium Conference, "has been the most difficult conference in the history of the League of Nations. We have touched on the centuries old practices of the East; we have come hard against the economic status of several nations; we have found ourselves confronted by the most complicated and baffling details; we have seen the struggle between the smuggler and the law-enforcer; and yet we have had to safeguard legitimate rights and legitimate uses of drugs when fulfilling their errand of mercy in alleviating suffering. The drug question is both a boon and a curse to civilisation; it contains much that is good as well as much that is bad; but where it is bad it is like a many-headed hydra rearing its ugly features despite all precautions in most unexpected places." It will be remembered that the uncompromising attitude adopted by the United States delegation, in insisting that immediate steps should be taken to suppress the cultivation of the poppy, and of the coca plant, at one time threatened to wreck both conferences. It was only after their withdrawal that the delegates of seven of the eight Powers (China also having withdrawn) represented at this conference signed, on February 11, an agreement largely based on the recommendations outlined in our issue of November 22, p. 744.

OPIUM AGREEMENT

THE BRITISH EMPIRE (WITH INDIA), CHINA, FRANCE, JAPAN, THE NETHERLANDS, PORTUGAL AND SIAM.

Being fully determined to bring about the gradual and effective suppression of the manufacture of, internal trade in, and use of prepared opium, as provided for in Chapter II of the International Opium Convention of January 23, 1912, in their Far Eastern Possessions and Territories, including leased or protected Territories, in which the use of prepared opium is temporarily authorised; and

Being desirous, on the grounds of humanity and for the purpose of promoting the social and moral welfare of their peoples, of taking all possible steps for achieving the suppression of the use of opium for smoking with the least possible delay;

Having decided to conclude an agreement supplementary to the said International Convention;

Have nominated for this purpose as their plenipotentiaries

Who, having examined the present situation in regard to the application of Chapter II of the said International Opium Convention in the above-mentioned Far Eastern Possessions and Territories; and

Taking note of the fact that the increase of the smuggling of opium in the greater part of the Territories in the Far East since the ratification of the Convention is hampering greatly the accomplishment of the gradual and effective suppression of the manufacture of, internal trade in, and use of prepared opium, as provided for in the Convention, and is even rendering less effective some of the measures already taken for that end; and

Taking into account the different situations of the several countries;

Having deposited their full powers found in good and due form; have agreed as follows:—

ARTICLE I.—(1.) Except as provided in paragraph 3 of this article with regard to retail sale, the importation, sale and distribution of opium shall be a monopoly of the

Government and the right to import, sell or distribute opium shall not be leased, accorded or delegated to any persons whatever. (2.) The making of prepared opium for sale shall also be made a monopoly of the Government as soon as circumstances permit. (3) [a] The system of employing persons paid by a fixed salary and not by a commission or sales for the retail sale and distribution of opium shall be applied experimentally in those districts where an effective supervision can be exercised by the administrative authorities. [b] Elsewhere the retail sale and distribution of opium shall be conducted only by persons licensed by the Government. Paragraph [a] need not be applied if a system of licensing and rationing of smokers is in force which affords equivalent or more effective guarantees.

ARTICLE II.—The sale of opium to minors shall be prohibited. All possible steps shall be taken by the Contracting Powers to prevent the spread of the habit of opium smoking among minors.

ARTICLE III.—No minors shall be permitted to enter any smoking divan.

ARTICLE IV.—The contracting Powers shall limit as much as possible the number of retail shops and, where smoking divans are permitted, the number of divans.

ARTICLE V.—The purchase and sale of "dross," except when the "dross" is sold to the monopoly, is prohibited.

ARTICLE VI.—(1) The export of opium, whether raw or prepared, from any Possession or Territory into which opium is imported for the purpose of smoking shall be prohibited. (2) The transit through, or transhipment in, any such Possession or Territory of prepared opium shall be prohibited. (3) The transit through, or transhipment in, any such Possession or Territory of raw opium consigned to a destination outside the Possession or Territory shall also be prohibited unless an import certificate issued by the Government of the importing country which can be accepted as affording sufficient guarantees against the possibility of illegitimate use, is produced to the Government of the Possession or Territory.

ARTICLE VII.—The Contracting Powers shall use their utmost efforts by suitable instruction in the schools, dissemination of literature and otherwise, to discourage the use of prepared opium within their respective Territories, except where a Government considers such measures to be undesirable under the conditions existing in its Territory.

ARTICLE VIII.—The Contracting Powers undertake to assist one another in their efforts to suppress the illicit traffic by the direct exchange of information and views between the heads of the services concerned.

ARTICLE IX.—The Contracting Powers will examine in the most favourable spirit the possibility of taking legislative measures to render punishable illegitimate transactions which are carried out in another country by a person residing within their Territories.

ARTICLE X.—The Contracting Powers will furnish all information which they can obtain with regard to the number of opium smokers. This information shall be transmitted to the Secretary-General of the League of Nations for publication.

ARTICLE XI.—The provisions of this agreement shall not apply to opium destined solely for medical and scientific purposes.

ARTICLE XII.—The Contracting Powers agree that they will jointly review from time to time, at such dates as may be mutually agreed, the position in regard to the application of Chapter II of the Hague Convention of January 23, 1912, and of the present Agreement. The first meeting shall take place at latest in 1929.

ARTICLE XIII.—The present Agreement applies only to the Far Eastern possessions or territories of the Contracting Powers, including leased or protected territories, in which the use of prepared opium is temporarily authorised. At the moment of ratification any Contracting Power may declare that its acceptance of the Agreement does not include any territory over which it exercises only a protectorate; and may accede subsequently in respect of any protectorate thus excluded by means of a notification of accession deposited with the Secretary-General of the League of Nations, who shall forthwith notify the accession to all the other Contracting Powers.

ARTICLE XIV.—The present Agreement, of which the French and English texts are both authentic, shall be subject to ratification. The deposit of ratification shall be made at the Secretariat of the League of Nations as soon as possible. The Agreement shall not come into force until it has been ratified by two Powers. The date of its coming into force shall be the 90th day after the receipt by the Secretary-General of the League of Nations of the second ratification. Thereafter the Agreement shall take effect for each Contracting Power 90 days after the receipt of its ratification. The Agreement shall be registered by the

Secretary-General of the League of Nations upon the day of its coming into force.

ARTICLE XV.—If one of the Contracting Powers should wish to denounce the present Agreement, the denunciation shall be notified in writing to the Secretary-General of the League of Nations, who will immediately communicate a copy of the notification to all the other Powers, informing them of the date on which it was received. The denunciation shall take effect only as regards the Power which notified it, and one year after the notification thereof has reached the Secretary-General.

This Agreement was signed by: Sir Malcolm Delevigne, K.C.B. (British Empire); Mr. Harold Clayton (India); Mr. Ed. Daladier (France); Mr. S. Kaku and Mr. Y. Sugimura (Japan); Heer W. G. Van Wettum (Netherlands); M. A. Bartholomeu Ferreira and M. Rodrigo J. Rodrigues (Portugal); and Prince Damras (Siam). These signatures are also appended to the following:—

PROTOCOL

The undersigned representatives of the States signatory to the Agreement relating to the use of prepared opium signed this day, duly authorised to that effect;

Anxious to ensure the complete and final execution of the obligations, and to strengthen the undertakings assumed by them under Article VI of the Hague Convention of 1912;

Taking note of the fact that the Second Opium Conference has decided to adopt a Protocol by which certain Powers are to establish within five years at latest an effective control over the production, distribution and export of raw opium, so as to prevent illicit traffic, hereby agree as follows:—

ARTICLE I.—The States signatories of the present Protocol recognise that the provisions of the Agreement signed this day are supplementary to, and designed to facilitate the execution of the obligation assumed by the signatory States under Article VI of the Hague Convention of 1912, which obligation remains in full force and effect.

ARTICLE II.—As soon as the poppy-growing countries have ensured the effective execution of the necessary measures to prevent the exportation of raw opium from their territories from constituting a serious obstacle to the reduction of consumption in the countries where the use of prepared opium is temporarily authorised, the States signatories of the present Protocol will strengthen the measures already taken in accordance with Article VI of the Hague Convention of 1912, and will take any further measures which may be necessary, in order to reduce consumption of prepared opium in the territories under their authority, so that such use may be completely suppressed within a period of not more than fifteen years from the date of the decision referred to in the following Article.

ARTICLE III.—A Commission to be appointed at the proper time by the Council of the League of Nations shall decide when the effective execution of the measures mentioned in the preceding Article to be taken by the poppy-growing countries has reached the stage referred to in that Article. The decision of the Commission shall be final.

ARTICLE IV.—In the event of any of the States signatories of the present Protocol finding, at any time during the period of fifteen years referred to in Article II, that the measures to be taken by the poppy-growing countries, referred to in the said Article, are no longer being effectively executed, such State shall have the right to bring the matter to the notice of the Council of the League of Nations. If the Council, whether by the report of a Commission appointed by it to investigate and report upon the facts, or by any other information at its disposal is satisfied that the facts are as stated, the States concerned will be entitled to denounce the present Protocol. In that case a Conference of the States concerned shall at once be held to consider the action to be taken.

ARTICLE V.—During the year preceding the end of the period of fifteen years referred to in Article II, a special Conference of the States signatories of the present Protocol shall be held to consider the measures to be taken in regard to habitual addicts whose pathological condition is certified by the medical authorities of the country concerned.

ARTICLE VI.—The States signatories of the present Protocol will co-ordinate their efforts to effect the complete and final suppression of the use of prepared opium. In order to attain this object as soon as possible, the said States, recognising the difficulties at present experienced by certain Powers in establishing an effective control over the production, distribution and exportation of raw opium, make a pressing appeal to the poppy-growing countries, for the establishment between all the States concerned of a sincere and energetic collaboration which will lead to the termination of the illicit traffic.

ARTICLE VII.—The present Protocol shall come into force for each of the signatory States at the same time as the Agreement relating to the use of prepared opium signed this day.

ARTICLE VIII.—Any State represented at the Conference at which the present Protocol was drawn up may accede to it at any time after its coming into force.

The Final Act contains the following declarations:—

“It has been pointed out to the Conference that in some countries the system of licences (or registration) and rationing has been successful in diminishing the number of smokers. At the same time, the Conference has found that in other countries the contraband trade, which equals and even surpasses in extent the legitimate trade, renders the application of this system difficult, and in the opinion of the Governments in question useless, and in some cases dangerous. Accordingly, the Conference declares that the possibility of adopting these measures or of maintaining them in those territories where they are now working successfully, depends principally upon the extent of the contraband trade. It therefore leaves to the Contracting Powers which have not yet applied this system the duty of selecting the moment when circumstances will allow of its adoption and of taking in the meantime all such preparatory measures as they may deem expedient.”

The Representative of the British Empire declared that he signed the Protocol subject to the following declaration:—

“I declare that my signature of this Protocol is subject, in respect of British Protectorates, to the conditions contained in Article XIII of the Agreement signed this day.”

The Representative of Portugal, on signing the Agreement, made the following declaration:—

(1) “The Portuguese Government, while accepting the principle of a monopoly as formulated in Article I, does so, as regards the moment at which the measures provided for in the first paragraph thereof shall come into force, subject to the limitation contained in the second paragraph of the article, (2) The Portuguese Government being bound by a contract consistent with the provisions of the Hague Convention of 1912, will not be able to put into operation the provisions of Paragraph 1 of Article 6 of the present Agreement so long as its obligations under this contract are in force.”

The Representative of Siam declared that he signed the Agreement subject to the following declaration:—

“The Siamese Delegation is instructed to sign the Agreement under reservation of Article I, Paragraph 3 (a) with regard to the time when this provision shall come into force and of Article V. The reason for these reservations has been stated by the first delegate of Siam on November 14, 1924. The Siamese Government is hoping to put into force the system of registration and rationing within the period of three years. After that date, the reservation in regard to Article I, Paragraph 3 (a) will fall to the ground.”

(To be continued.)

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Oxalic Acid.—Opuntia plants are pulped, the pulp is treated with an alkali, sieved, and then submitted to froth-flotation to recover the oxalate. (W. A. Fraymouth and the Bhopal Product Trust, Ltd. 227,925.)

Detergents.—Detergent preparations obtained by adding oleic acid, or acids of copra oil, and paraffins, naphthas or other hydrocarbons, to a solution of soap from hydroxylated fatty acids, e.g., castor oil. (R. Vidal. 228,390.)

Dentifrice Material.—A process for preparing magnesium hydroxide in a form free from the tendency to harden when mixed with other ingredients in a tooth paste, consisting in evaporating an aqueous suspension of magnesium hydroxide, containing 86 per cent. of water, to which an amount of glycerin equivalent to that of the water present is added, until the latter has been substantially removed. (E. R. Squibb & Sons and F. W. Nitardy. 224,891.)

Personalities

MR. J. MACVIE HILL, B.Sc., F.C.S., Ipswich, points out that the second of his titles was by a slip incorrectly printed in our issue of February 28.

MRS. WINIFRED HULSE, chemist and druggist, daughter of Mr. A. L. Laing, chemist and druggist, Lerwick, has recently been granted the diplomas M.R.C.S., L.R.C.P.

MR. A. H. HALE, F.S.M.C., D.B.O.A. chemist and druggist, Chulalongkorn University, Bangkok, has been installed R.W.M. in the chair of Lodge Saint John, Bangkok, No. 1072 S.C.

MR. RICHARD B. PILCHER, secretary of the Institute of Chemistry for the past thirty years, and registrar for twenty-five years of that time, was, on March 2, presented with a gift of furniture and plate on behalf of the fellows and associates of the Institute. The presentation was made by Professor G. G. Henderson, President, who remarked that when Mr. Pilcher first became connected with the Institute nearly thirty-three years ago, the membership was only 800; it now approached 5,000. Mr. and Mrs. Pilcher and their family were subsequently entertained to dinner by the Council of the Institute.



Photo] [Elliott & Fry, Ltd.

MR. R. B. PILCHER

paper makers, London, E.C.4) lectured at the City of London College, on February 21, on "Gummed Tape and Sealing Machines."

ERIC G. FORRESTER, son of Mr. G. P. Forrester, F.C.S. (editorial staff of THE CHEMIST AND DRUGGIST), has passed the London matriculation in the first division. He is a student at the University College School, Hamps-
stead, and the only one to pass in the first division.

MR. AND MRS. J. A. STEWARD, Fort Royal, Worcester, celebrated their golden wedding on March 4. Mr.



MR. J. A. STEWARD

Steward was born at Tenbury, and after serving his apprenticeship at Leominster, had experience in London with the late Mr. S. Betty and with Savory & Moore, Ltd. He then qualified, went to the Pharmacie Béral, Paris, for four years, and in 1876 acquired the pharmacy of the late Mr. Woods in High Street, Worcester. The business dates back to 1776, and its original owner, an apothecary who made a side-line of lending money, is said to have figured (with the necessary transformation) in one of the late Mrs. Henry Wood's novels. Mr. Steward carried it on till 1905, when he retired in favour of his eldest son, Mr. Charles A. Steward, chemist and druggist. Mr. J. A. Steward has rendered his city distinguished public service. He was a member of the City Council for thirty-three years (including twelve years as alderman), retiring in November 1923. On two occasions he was elected Mayor, and the citizens presented him and Mrs. Steward with a silver service as a token of esteem. Mr. Steward has served as High Sheriff and has been a justice of the peace since 1900.

MR. PHILIP F. ROWSELL, J.P., F.C.S., Vice-President of the Pharmaceutical Society, has again been returned unopposed to the Devon County Council as a representative for the Exmouth Division.

As their representative in Kent, Sussex, Surrey and Hampshire, Francois Newbery & Sons, Ltd., druggists' sundriesmen, London, E.C.1, have appointed Mr. Arthur R. Warren, who has been on their staff for several years.

MR. F. MELVILLE THOMAS, chemist and druggist, Neath, referring to his article on "Selling Wireless Apparatus" in the C. & D., February 28, p. 304, informs us that the name of the Marconi Scientific Instrument Co., Ltd., should read Marconi's Wireless Telegraph Co., Ltd., or, as it is now known, Marconiphone Co., Ltd.

Births

Notices for insertion in this column must be properly authenticated.

GREAVES.—At Lyndon House, Sidmouth, on February 13, the wife of William L. Greaves, chemist and druggist (Holman Ham & Co., Ltd.; chemists), of a son.

SMITH.—At Armley, Leeds, on February 25, the wife of J. W. Smith, M.P.S., of a son.

Marriages

Golden Wedding

TOWNLEY—SWINBURN.—At St. John's Church, Keswick, on March 2, 1875, by the Rev. S. Streeten, Thomas William Townley, Ph.C., Keswick, to Annie Jane, second daughter of Mr. Joseph Swinburn, late of Milbeck Hall, Keswick. Present address: The Hollies, Keswick.

Deaths

BIRCHAM.—At Reepham, Norfolk, on March 3, suddenly, Mr. Jesse Bircham, chemist and druggist, aged fifty-eight. Mr. Bircham served his apprenticeship to the late Mr. John Cossey, chemist and druggist, Norwich, and qualified in 1889. He was a prominent member of the United Methodist Church, and a generous helper of the poor.

CLARKE.—At Belfast, recently, Mr. George Clarke, M.D., M.S., L.P.S.I., eldest son of the late Mr. John Clarke (John Clarke & Co., Ltd., wholesale druggists, Corporation Street). Dr. Clarke passed the Licence examination in 1876, and was at one time a director in his father's company. He obtained his medical degrees, and the diplomas of the Royal Colleges of Physicians and Surgeons, Edinburgh, in 1883. Dr. Clarke was a cousin of Mr. Fred Storey (President of the Chemists' and Druggists' Society of Ireland) and of the late Mr. Benjamin Clarke (founder of the wholesale druggists' business of Benjamin Clarke & Son, Donegall Street).

COLLINS.—At Pontefract, on February 24, Mr. Alfred Collins, chemist and druggist and dentist, aged fifty-one. (See p. 333.) Mr. Collins, who was a native of Halifax, qualified in 1900. He was a Past-Master of the St. Oswald Lodge of Freemasons and deputy-organist at the parish church. A widow, a son and a daughter survive him.

EVANS.—At Derby, recently, Mr. Thomas Mould Evans, chemist and druggist. Mr. Evans, who was a native of Clifton Campville, served his apprenticeship to the late Mr. Ison, a Derby chemist. He qualified in 1873, and, returning to Derby, carried on business for a time in partnership with the late Mr. W. B. Blunt, chemist and druggist, and eventually alone. Mr. Evans is survived by a widow and a daughter.

JOCE.—At Bideford, on March 2, Mr. William Dunn Joce, J.P., chemist and druggist, aged ninety-two. Mr. Joce, who was the senior magistrate of the borough, is survived by a widow and a son.

TRIST.—At 2 Castle Road, Rowlands Castle, on February 25, Louisa, wife of Mr. Richard Trist, Ph.C., late of Southsea.

Trade Notes

VOLT COMPLEXION POWDER is a new line brought out by L. T. Piver, Paris (London dépôt, 102 Dean Street, Oxford Street, W.1). It sells at 2s. 6d. a box.

J. H. & S. JOHNSON, wholesale druggists, Hatton Garden, Liverpool, are the Liverpool and Manchester distributing centre for The British Drug Houses, Ltd., London, N.1.

MR. ALBERT E. FERGUSON, 1 Jewry Street, London, E.C.3, has been appointed selling agent for the United Kingdom and Colonies for Dörstling & Sohn, Radebeul, Saxony, makers of drug-cutting machines.

MOHAWK CARRIER CYCLES.—Mohawk Cycle Co., Ltd., 341 Alexandra Road, Hornsey, London, N.8, who specialise in carrier cycles, supply these for cash or on easy payment terms—down to 5s. per week.

THE PALMOLIVE CO., LTD., 21-23 Eagle Street, High Holborn, London, W.C.1, will be glad to send details of their counter-coupon scheme in connection with Palmolive to any chemist who has not already received particulars.

DUBARRY PREPARATIONS.—Dubarry et Cie, Goldstone Laboratories, Hove, offer to supply advertising blocks of the Dubarry toilet preparations for use in chemists' newspaper advertisements or circulars. There are thirty different blocks available.

HIND'S HONEY AND ALMOND CREAM is to be extensively advertised in ladies' journals and popular magazines. The sole distributors for Great Britain, Francis Newbery & Sons, Ltd., 31-33 Banner Street, London, E.C.1, supply show matter with each order.

HEIDE'S LICORICE PASTILLES.—Crossword puzzles are being used to advertise these pastilles, for which the sole agents are Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. An announcement is made in the advertising pages of this issue.

SANAWAVES DEMONSTRATION.—A lecture demonstration of the "Sanawaves" electro-galvanic treatment is to be given by Mr. A. R. Bennett at 27 Soho Square, London, W.1, on March 11, at 8 p.m. Chemists and their assistants are invited to be present.

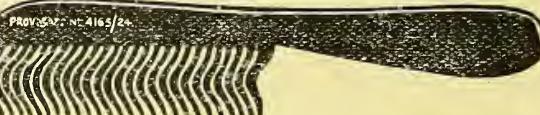
SNOWFIRE TOILET SOAP.—In regard to the reduction in the trade price which was referred to last week in this column and in the advertisement of F. W. Hampshire & Co., Ltd., it is to be understood that the allowance for stock purchased since October 1, 1924, refers only to unsold stock. The advertisement this week makes this plain.

LUTON HAT DYES.—A handsome cut-out showcard in colours is being sent by Whitaker & Co., Kendal, to chemists who order one gross of Luton hat dyes before April 9 (to be delivered as desired), and who agree to



give fourteen days' window display. In addition the chemist receives free of charge a bonus of one dozen Luton hat dyes. The showcard referred to measures 16½ in. by 18 in. in the central part, which has a cut-out figure of a lady applying hat dye. On either side of the central card are large oval appendages, which give the whole a very attractive appearance.

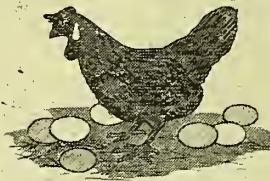
WAVERLEY COMB.—The Waverley Comb Co., 2 High Street, Kingsland, E.8, advertised in our last issue the new comb shown here. This is intended for use by ladies,



the curved teeth of the comb having the effect of preserving the natural or artificial waviness of the hair. The combs are obtainable by chemists from S. Maw, Son & Sons, Ltd.

EASTER EGG NOVELTY.—Midgley's Easter soap egg, which is illustrated full size in the advertisement of Evans Sons Lescher & Webb, Ltd., is an attractive

Easter Greetings!



DAINTY
SURPRISE EGGS

Made of the Finest Toilet Soap

Delicately **6½** D. Perfumed

COMPLETE WITH BEST OPAL GLASS NOVELTY EGG-CUP

novelty. A substantial soap egg is contained in an opal glass cup, the egg in cup costing 4s. 6d. a dozen. We illustrate the hand-painted showcard, which is being sent out for use in chemists' shops with orders for one gross and upwards.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

M/23. Forrest's chronometers	M/242. "Novella" cardboard boxes
R/112. "Mother's Friend" Rubbing Oils	D/52. "Old Dutch" toilet paper
S/262. Mrs. Judge Brown's Hair Restorer	W/142. Scottish Perfumery Co. (address)
S/142. "Patit" puffs	B/122. Ward's Elixir Tonica

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

Albion Milk and Sulphur Soap. C/62	Dr. Pierre's tooth-powder. D/252
Branalcan mouth wash. A/42	Emzymol. C/42
Cazo Tablets. S/102	Olivbyn. S/92
Christia Tissue. A/112	Prominta Food. R/271
Cowan's vaccination shields. F/231	Sodalin. B/252
Denfena Tooth Powder. A/112	Thinzu. S/92
Dorin's perfumery (London office). B/112	"Turknit" washing squares. D/271

THE Botanic Garden at Cambridge has recently been enriched by the gift of an Alpine house. The structure, which is of teak, is almost completed, and there are already some plants to be seen in it.

Observations and Reflections

By Xrayser II.

From the President's Remarks

at the Thames Valley dinner it would seem that a new Pharmacy Act of some kind is being contemplated at headquarters. The time has come (he said) when the constitution of the Society must be altered, and only an Act of Parliament can do that. It is the recent general meeting that has brought Mr. Sargeant to this conclusion, a meeting which, with a cynical disregard of the virtue attributed to it before it was held, he declared to be not representative. If the whole Council is converted to the same opinion, and the opportunity is taken to apply for a new Act reforming the constitution of the Society in a democratic sense, good may yet come out of evil, and these new by-laws, modified by the regulations, prove a blessing in disguise. I must confess, however, that I do not hope to live to see this done. Even if an Act were attempted, I should greatly mistrust any reform proposed by a Council dominated by those who engineered the new by-laws. Meanwhile Mr. Sargeant challenges those who opposed them to turn out the seven members who retire. That at least is common sense, and it looks bold, but it is not so bold as it looks. We must remember that Mr. Sargeant thinks he is speaking to a lot of rabbits who bolt into their holes at the sight of a man. Is he?

Mr. Aylmer Coates

at Burnley (*C. & D.*, February 28, p. 315), made a very pertinent reference to the Council election of 1888, when the principal of a well-known pharmacy school was a candidate, though he did not apply it very closely to the present situation. Now, however, that the Council is charged, not without reason, with "educational mania," it becomes a question whether, on other grounds than those on which Messrs. Benger, Martindale, Proctor and Reynolds, all men of great eminence in pharmacy, opposed the candidature referred to, it is desirable that the policy of the Society should be shaped by men with a natural bias away from the "bread and butter" side of the business. The objection made by the gentlemen named had such force with the electorate that the candidate, otherwise a popular man, polled only 434 votes. We shall have an opportunity, two months hence, of giving the Council a lead as to the real mind of the Society on the educational question by returning a sufficient number of men actually in retail business to ensure against further extravagance in the academic direction. It really begins to look as if in transferring the care of our purely business interests to the Retail Pharmacists' Union we had taken the "governor" off the pharmaceutical engine, and there was a danger of its running away with us.

Mr. Thomas Hardy's Address

at Bradford on "The Outlook in Pharmacy" (*C. & D.*, February 28, p. 314) may have been a model of its kind, but it was hardly of a kind for which as practical men we have much use. Judged by this address, Mr. Hardy would seem to have become at a bound the official apologist *in excelsis*. He sees, apparently, the whole duty of the pharmacist in "the utmost loyalty to the Pharmaceutical Society and the Retail Pharmaceutical Union" (this latter term, by the way, is a misnomer). Thus may we gain "the highest opinion of the Government departments," who were never so "down" on us as they are now, and "the confidence of the public," which doesn't care a straw whether it gets its Easton's syrup from a pharmaceutical chemist or the nearest drug store. Indeed, Mr. Hardy himself is

Not Quite so Happy

as he ought to be if his apologetic is sound. All is as it should be from the pharmaceutical standpoint, but the "bread and butter" aspect is not

so good—gives, in fact, some ground for uneasiness. Those Government departments, in spite of our "close contact" with them, are distinctly annoying with their Bills, and Regulations, and what not, and there are "many things adverse to the business outlook," but "loyalty" is the watchword; only be loyal, and everything ought to be well, even if it isn't. Unfortunately, this bread-and-butter aspect, which with Mr. Hardy comes second, is for most of us of the first importance. Even a bachelor of pharmacy without bread and butter has rather a "thin" time of it, I fancy.

The Case of Mr. A. E. Kennard,

the Harley Street bone-setter, and his clinic for poor people, which Mr. Ammon vainly attempted to bring before the House of Commons last week, cannot be made too public, though there is little hope that popular opinion will be strong enough to overcome the jealousy and prejudice of the medical profession. In consequence of the warning received from the General Medical Council that any qualified practitioner assisting an unqualified man in his operations will be struck off the roll, the anaesthetist employed at the clinic has been compelled to leave, and the clinic will have to be closed. Mr. Ammon, who has himself been recently operated upon by Mr. Kennard, wished to put a question on this subject to the Home Secretary, but the Speaker refused to allow it, on the ground that the matter did not come within the scope of discussion by the House, being one in which no Minister of the Crown has any jurisdiction. We know what the majority of the profession would say of such conduct on the part of a labourers' trade union, which is comparatively of minor importance. It is monstrous that a public benefit of the kind can thus be stopped at the instance of any interested class.

The Marigold,

which figured in your last week's instalment of the Commercial Compendium, has been used as an adulterant of saffron for at least three hundred years, but has not otherwise played a very important part in medicine, though it was long official with us. It was supposed to promote the menses and to help to expel the after-birth, but probably was most used as a heart-stimulant and as a cordial in broths. It was a favourite flower with Shakespeare, who, however, does not refer to it as a medicinal plant. There is a line in the bridal song in "The Two Noble Kinsmen," which is probably his, that has always puzzled me:—

"Marigolds on death-beds blowing."

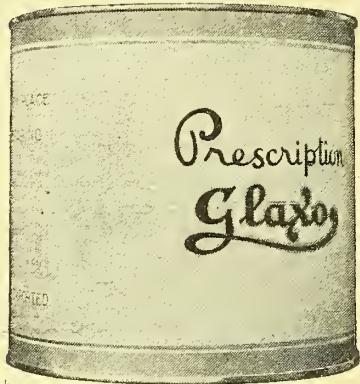
which seems to refer to some such idea as that which Folkard says is current in America, where marigolds are called death-flowers in reference to a tradition that they sprang from the ground stained with the blood of the Mexicans who were the victims to the Spanish lust of gold. These Mexican marigolds, however, are not the same flowers as ours, and except in the poem quoted I do not remember to have seen any allusion to such a superstition in connection with the latter.

Unless the Natives of Guiana

differ widely from those of Colombia and the states of the Isthmus, I fancy Mr. Macvie Hill (*C. & D.*, February 28, p. 315) overestimates the therapeutic knowledge of their medicine men. I have lately read several very informative books of travel concerning these regions, one of which dealt particularly with the art and mystery of these medicine men, and the impression received was that it consists mainly of superstition and imposture. No doubt they have some knowledge, as indeed all the natives must have, of the properties of the plants and other products of their respective countries. When Lowell said or sang,

I find out poison, as the first men did,
By tasting and then suffering if I must,
he went to the root of the matter, and some of the tribes of which I have been reading apparently never got much beyond this experimental knowledge, not very much further than some animals get.

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THERE is an increasing demand for Prescription (Humanised) Glaxo, which is being largely ordered by doctors. Are you getting your share of this new business?

Prescription (Humanised) GLAXO

Prepared in accordance with the Prescription of an eminent Children's Specialist. In hospitals this specially prepared Glaxo, with a low protein content, has given remarkable results. It is specially recommended for very young, weak, frail and premature babies. When reconstituted with hot, boiled water (160° F.), so that one part of dry food yields eight of liquid, it is identical in composition with average breast milk. Through Messrs. Sangers, or usual wholesaler.

RETAIL PRICE	NET COST TO RETAILER
1/6 Prescription Glaxo	14/5 net per dozen
4/6 "	43/2 "

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Editorial Articles

Control of Narcotics

DESPITE a succession of crises and deadlocks, culminating in the dramatic withdrawal of the delegation of a great Power on failing to impose its own views, the two Opium Conferences convened by the League of Nations succeeded in bringing their labours to a successful termination. Elsewhere in this issue we begin the publication of the full text of the instruments signed on February 11 and 19 respectively. These agreements profoundly modify the original provisions of the Hague Opium Convention of

1912, particularly the new Convention drawn up by the Second Opium Conference, which establishes on a uniform, international basis, in the form of definite stipulations instead of more or less pious recommendations, the measures to be enforced by each State to control effectively the production and traffic in narcotics, in order to limit their use exclusively to medical and scientific purposes. While several of the safeguards laid down in Chapters III and V have already been enforced by a number of States, the keystone of the international control will be the Permanent Central Board, and in view of its important functions, special interest attaches to the provisions of Chapter VI setting forth its activities and attributes. In this connection it may be mentioned that the Convention actually signed by the delegates, the official text of which was not available until March 3, shows a number of important alterations, in addition to minor textual changes, when compared with the draft proposal. Thus, the definition of "medicinal opium" has been altered; Article 8 contains a new provision affecting the exclusion of certain preparations containing narcotics; in Article 10 the provisions of the Convention may be applied to "any narcotic drug," and not necessarily to a derivative of opium or coca. The constitution of the Permanent Central Board, originally designed to comprise seven members appointed by the British Empire, France, Germany, Italy, Japan and the United States of America, together with those States which have non-permanent seats on the Council of the League, has been radically modified. This Board is to consist of eight members appointed by the Council of the League of Nations, and only the United States of America and Germany are specifically mentioned—each shall be invited to nominate one person to participate in these appointments. The provisions of Articles 8 and 10, particularly of the latter, are capable of very wide interpretation, and apparently considerable importance is attached to bringing about a speedy decision regarding a possible extension of the scope of the Convention so as to include preparations not specifically coming within its avowed sphere of action; this is evident from paragraph VI of the Final Act. Paragraph IV of the latter contains a curious proposal for suppressing illicit traffic in dangerous drugs; surely, instead of making an invidious discrimination the simpler course would be to withhold a licence from a dealer suspected of indulging in illicit trade. Whereas in the English text of the Convention the French "stupéfiant" is rendered by "narcotic drug," in the Final Act, and in the Protocol it is rendered by "Dangerous Drugs." These agreements constitute a new feature in legislation, for there is no precedent for an international convention designed not only to restrict the use of certain articles, but also their production, manufacture, import and export, a point which raises a series of economic problems, and to which the delegates of some countries did not fail to draw attention.

The Shellac Position

WHILE generally dull trade conditions have prevailed in the shellac market during the last two months or so, or since the position was discussed in our issue of December 13 last (p. 856), prices have been losing ground with spot delivery of usual standard orange TN quality falling to about 255s. per cwt. from first hands. Yet there has been no material deterioration in supply and demand so far as actual shellac is concerned. In fact, the trade demand was consistently good in the course of January, as reflected in the excellent deliveries, totaling 6,023 cases, against which the landings were only

4,692 cases, so that the warehouse stocks were drawn upon by 1,331 cases, this making the latter 8,471 cases, or 6,586 cases less than a year previous. The weaker surface appearances of late would seem somewhat peculiar, but must be largely attributed to absence of new speculative interest and the lifeless and easy feeling which has prevailed in the Calcutta market. At the beginning of this year prices at Calcutta were upwards of 135 rupees, and have since sagged, in spite of transient moderate fluctuations, down to about 116 rupees. The lack of speculative support in the terminal market at this end is doubtless not regretted by the genuine buyer, and the statistical position being sound enough, this is, if anything, conducive to the continuation of a steady, regular demand, inasmuch as there has been no indication of any very important increase in the total shipments from Calcutta, the distribution of which has assumed a much wider radius within the last six months or so. This may eventually have a notable bearing on the Calcutta market in the event of a general revival. Within periods of highly inflated prices in more recent years, the American takings from Calcutta frequently represented roughly two-thirds of the total quantities shipped, but the proportion of the exports to America has in the last few months diminished considerably. This has presumably had something to do with the more conservative views of dealers and speculators. The decrease in absorbing capacity of the United States should be temporary only, but meanwhile steadily increasing quantities have been shipped to the Continent and various other destinations outside of this country and America. Out of the heavier Calcutta clearances reported for January of 31,308 cwt., only about one-fourth went to America, instead of one-half, as recorded for January 1923, out of a total of 22,641 cwt. The present London stock is comparatively small, but fairly liberal quantities are now afloat for London, so that there is not much fear of an acute shortage here in the near future. There is little doubt that in the event of the American demand from Calcutta assuming more normal dimensions at any time, possibly against Spring trade requirements, a sensitive feeling would become manifest there. We give below tabulated figures indicating landings, deliveries for a number of years, including the returns for last month, together with the extreme points touched in the price of TN quality on the spot:—

Years	Landings Case	Deliveries Cases	Spot value of T.N.	
			Highest	Lowest
1921	52,463	53,409	410 0	272 6
1922	50,452	57,225	395 0	285 0
1923	67,474	56,404	375 0	255 0
1924	53,059	58,593	335 0	255 0
1925 (Jan.)	4,692	6,023	320 0	300 0

The most striking feature has certainly been the progressive rate of the deliveries from year to year, with the exception of the slight set-back for 1923 while the January outgoings were particularly heavy. The price at the end of January was about 300s., from which there has been a further fall of 45s., as recorded this week. While the extreme highest point touched within the last four years was 410s., namely, in 1921, the price dropped at one period in both 1923 and 1924 to 255s.—to-day's price. To what extent the market may yet sag is rather problematical, but there seems to be plenty of room for fluctuations in the opposite direction should speculative enterprise be attracted again under new factors. We also give figures (in cases) representing the average of both the landings and deliveries for the last

five years, together with the London stocks at the end of each year for comparison purposes:—

London	Landings monthly average	Deliveries monthly average	Stocks
1920	3,982	4,190	12,223
1921	4,372	4,450	11,049
1922	4,204	4,769	4,276
1923	5,623	4,700	15,336
1924	4,422	4,883	9,802

The monthly average of the landings for 1924 was thus considerably smaller than for the previous year; on the other hand, the average of the deliveries compares very favourably with the previous years. It is remarkable that the outlet for shellac continues at an increasing rate and is now far greater than in pre-war times.

Medical and Dental Registers

THE Medical Register for the year 1925 has just been issued (21s., Constable & Co., Ltd.) by the General Medical Council. The number of names included is 49,858—an increase of 1,718 on the number at the end of 1923, and of 2,097 on the average of the last five years. Registrations during the past year number 2,796; this figure is 314 more than that of the previous year and 1,398 more than the average for the past twenty-four years. The names of 978 medical men have disappeared during 1924 from the Register—108 less than the last five years' average. The customary legal, statistical and other information is included in the volume. The Dentists Register for 1925, also issued by the General Medical Council (10s. 6d., Constable & Co., Ltd.), contains 13,818 names (13,473 in the previous year). During the past twelve months 524 persons have been registered with qualifications, and 210 under the Dentists Act, 1921: in addition, three Colonial or foreign names have been added. The number of names removed is 916; of these, 496 were deleted under Section 7 of the Dentists Act, 1921, and 253 under Section 12 of the Dentists Act, 1878. The percentage of United Kingdom graduates and licentiates in dental surgery on the present Register is 39.42; of persons (other than medical men or dental surgeons) in dental practice prior to the Act of 1878, 5.29; and of persons (without additional qualifications) registered under the Dentists Act, 1921, 52.62. An inset in this Register supplies names of bodies corporate carrying on the business of dentistry, and of directors of such bodies. A "Local List" (a new feature) gives under the name of each town the names of the dentists practising there. The Medical and Dental Students' Register, published under the same auspices (7s. 6d.), shows that during the past year 1,043 medical students were registered (545 in 1923) and 200 dental students (107 in 1923).

Westminster Wisdom

By the "C. & D." Parliamentary Representative.

OPIUM CONFERENCE

The Foreign Secretary stated in the House of Commons on February 25 that he intends shortly to make a statement on the Opium Conference at Geneva.

NURSING HOMES (REGISTRATION) BILL

This Bill, "to provide for the registration and inspection of nursing homes," was presented and read a first time in the House of Commons on February 25.

TRADE FACILITIES BILL

This Bill, which is to amend the Trade Facilities Acts, 1921 to 1924, by increasing the maximum limit of the loans in respect of which guarantees may be given under those Acts and by extending the period within which such guarantees may be given, was read a first time on February 25 and is now in the Committee stage.

SUPPLY OF INSULIN IN SCOTLAND

The second reading took place on March 4 of the Public Health (Scotland) Amendment Bill, which seeks to empower the public health local authorities in Scotland to provide insulin to those persons suffering from diabetes who require assistance in obtaining the treatment. An endeavour was made to enlarge the scope of the Bill so as to include treatment of other diseases.

BRITISH EMPIRE EXHIBITION (GUARANTEE) BILL

A Bill was read a first time on March 2, "to amend the British Empire Exhibition (Guarantee) Act, 1920, and the British Empire Exhibition (Amendment) Act, 1922, by increasing to one million one hundred thousand pounds the amount up to which a guarantee may be given thereunder and, by extending the operation of the said Acts, to any loss resulting from the holding of the British Empire Exhibition in the year nineteen hundred and twenty-five."

DUTY ON OXALIC ACID

Mr. MacKenzie Livingstone asked the President of the Board of Trade, on March 2, whether users of oxalic acid still have to pay an import duty, although this commodity is no longer manufactured in this country?

Sir B. Chadwick: Duty is chargeable on all oxalic acid imported into this country when not of Empire origin. The manufacture of that commodity in this country has been in suspense for some time, but I understand that preparations are now being made for its production here by a new process.

NITROGEN FIXATION

Mr. Beckett asked the Secretary of State for War, on March 3, whether the Report received from the Commission sent to Oppau to inquire into German methods of fixing nitrogen is still in the hands of the War Office; and whether any private firms or individuals have had access to it or have a copy of the whole or any portion of it?

Sir L. Worthington-Evans: The answer to the first part of the question is in the affirmative. With regard to the second part of the question, under the agreement for the sale of the Government factory at Birmingham the purchasers acquired the right to have placed at their disposal any information in the possession of the Government bearing upon the manufacture intended to be carried on in the factory, which would include the information regarding the fixation of nitrogen.

MINISTRY OF HEALTH

Lieut.-Colonel Horlick asked the Minister of Health, on February 25, what was the total cost of the medical staff of the Local Government Board in 1914 and 1918, and of the increased medical staff of the Ministry of Health in 1919, 1923, and for the current year; and how many new medical officers have been appointed in the last twelve months?

The Minister of Health replied that the total cost of the medical staff of the Local Government Board for salaries and travelling and subsistence expenses was £30,420 in 1914-15, and in 1918-19, including bonus, £35,743. The medical staff of the Ministry of Health cost £56,985 in 1919-20, £121,454 in 1923-24; the estimated cost for the current financial year is £122,910. The functions of the Ministry of Health include not only those of the Local Government Board, but also of the National Health Insurance Commissions for England and Wales. The figures for 1923-24 and the current financial year include the salaries and expenses of the regional medical officers: approximately four-fifths of the total cost of this service is recovered out of National Health Insurance Funds. Three new medical officers have been appointed in the last twelve months to fill vacancies in existing posts.

THE Sunderland Technical College Botanical Society held a botanical ramble on February 28, when the country round Warden Law, Elemore and Pittington was explored. Very few flowering plants were recorded. The most interesting finds were confined to the cryptogams.

Pharmaceutical Society of Great Britain Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on March 4, Mr. F. P. Sargeant (President) in the chair. The only absent member was Mr. Neathercoat. There were no questions.

DEATHS

Before the ordinary business of the Council, the President referred to the deaths of three distinguished men connected with the Society, two of them as members and one as honorary member. They were Mr. T. H. W. Idris, Dr. Charles Symes and Sir Edward Thorpe. Mr. Idris would be chiefly remembered for his many public services both in municipal life and in Parliament. Members of the Pharmaceutical Society would probably recall particularly his services in the House during the passage of the Bill which finally became the Poisons and Pharmacy Act, 1908, but they would also recall his presidencies of the British Pharmaceutical Conference. His interest in the Conference was well shown by his attendance at the London Conference in 1923, although then over eighty years of age. The Council would have seen that at the memorial service in London the Society was officially represented. Dr. Charles Symes was in his early days a student in the Society's School under Professors Bentley and Redwood. Throughout his life he maintained the closest connection with pharmacy, holding official positions in connection with the British Pharmaceutical Conference and the Liverpool Chemists' Association. But it was perhaps fittest that they should particularly recall his very long term of service as a member of the Council. Sir Edward Thorpe, a distinguished scientist and Emeritus Professor of General Chemistry at the Imperial College, was well known throughout the whole world by his scientific books, especially the monumental "Dictionary of Applied Chemistry." The President moved:—

That this Council record with regret the passing of Thomas Howell Williams Idris after a life devoted to service to the community and to pharmacy. As a member of the London County Council, as alderman and subsequently Mayor of the Borough of St. Pancras, and as member of Parliament for Flint Borough, he rendered unselfish services in municipal and national affairs which will be long remembered, while the Council recall with particular gratitude his services to pharmacy as President of the London Chemists' Association, of the Public Dispensers' Association, and of the British Pharmaceutical Conference. The Council respectfully extend to his family their profound sympathy in their bereavement, and join with them in lamenting the closing of an honourable and strenuous career.

That this Council place on record their deep sense of the loss sustained by pharmacy by the death of Dr. Charles Symes, of Liverpool. The Council recall with gratitude the unselfish labours of Dr. Symes for the advancement of pharmacy as a member of Council for thirty years, as President of the British Pharmaceutical Conference and of the Liverpool Chemists' Association. They recall also his many services rendered to science and to the community at large during a long and distinguished life, and pay tribute to those personal qualities of loyalty, courage and integrity which earned the respect of all who knew him and will always be associated with his name. The Council respectfully tender their sincere sympathy to his family in their bereavement.

The VICE-PRESIDENT seconded the resolutions, which were carried by the Council standing in silence.

ELECTIONS AND RESTORATIONS

Eighty-two persons were elected members of the Society and eighty persons as student-associates. A number of persons were restored to the Society. The registrar reported that 219 persons had been registered as apprentices or students since the last council meeting.

EDUCATION COMMITTEE

This Committee submitted a report of a meeting held on March 3. In this it was stated that a letter was received from the Senior Secretary, External Department

of the University of London. The letter stated that the Senate had in principle decided to establish a degree in pharmacy for external students, and that the regulations for this degree were at present under consideration. The letter invited representatives to consult with the principal officer and Dr. Young as to what modification should be made in the regulations laid down for internal students for the purposes of an external degree.

The Committee appointed the President and chairman, together with the secretary, as representatives, and also made the following recommendation:—

"That consideration of applications received for the recognition of institutions for the purpose of the regulations for the Pharmaceutical Chemist Qualifying examination be deferred until after the conference on the external degree has been held."

The Committee also recommended that the Council meet on March 19 to consider the final drafting of the revised regulations in the light of the discussion to take place at the delegates' meeting on the preceding day.

The Committee had received a deputation from the Guild of Public Pharmacists consisting of Miss Gilliatt, Miss Sproule, Mr. Langford Moore, and Mr. Andrews. The deputation urged that apprenticeship should be served under the same conditions in so far as approval by the Society was concerned, in retail pharmacies as in public institutions, and that if the Council were not prepared to consider only recognising apprenticeship served in approved shops, they should not insist upon restricting it to approved institutions. The chairman pointed out the difficulties in the way of approving retail pharmacies, and reminded the deputation that in practice the Council did not refuse any application from any public institution of good standing. The deputation promised that a draft of articles of indenture recommended as suitable by the Guild for apprenticeship in institutions should be sent to the Society.

The undermentioned schools were recognised for the subjects indicated:—Shrewsbury Technical School, botany (in addition to chemistry and physics); Barrow-in-Furness Technical School, chemistry and physics.

Mr. WHITE said the Council would be pleased to see that the University had in mind an external degree which would enable people from all parts of the country to go in for the distinction.

The report was approved and adopted.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £48 15s. 11d., amounted to £9,235 4s. 5d., comprising the following items:—Subscriptions, £7,212 19s. 6d.; examination fees, £453 12s.; registration fees, £506 2s.; restoration fees and certificates of qualification, £3 17s.; penalties, £77 2s. 10d.; "Pharmaceutical Journal" advertisements, etc., £727 15s. 2d.; "Pharmaceutical Journal" S.A. subscriptions, £78 15s.; Pharmaceutical Press publications, £1 7s. 7d.; "Pharmaceutical Pocket Book," £8 19s. 6d.; "Year-Book," £5 17s. 2d.; Register of Chemists and Druggists, £20 14s. 6d.; B.P. Codex, 1923, £51 10s.; interest on investments, £32 4s. 2d.; sundries, £5 12s. 1d. Payments ordered at the last meeting amounted to £3,666 10s. 10d., and £5,550 was transferred to the deposit account, leaving a balance of £18 13s. 7d. The balances on the other accounts were:—Benevolent Fund (current account), £16 17s.; Benevolent Fund (donation account), £10 19s. 3d.; War Auxiliary Benevolent Fund, £80 13s. 5d.; Orphan Fund, £44 5s. 2d. The report recommended that accounts amounting to £4,827 14s. 10d. be paid, and that the action of the secretary in making payments amounting to £659 2s. 9d. be approved. The report was adopted.

BENEVOLENT FUND

The Committee reported that they had received three considered ten applications, and had made grants ranging from £10 to £30.

The following special contributions were announced:—Cardiff Association, 15s.; W. K. Somerton, £4 12s.; Carnarvon Pharmacists' Association, £1 1s.; Cheltenham Branch, £1 1s.; Gloucester and District Branch, £4;

John Rennie, Leeds, £5 5s.; R. C. Tween, £2 2s.; Anonymous (per N.E. Lancs. Branch), 5s.; Bolton and District Branch, £1 10s.; Anonymous, £1 1s.; Southampton Chemists' Social and Athletic Club, £1 1s. 7d.; Birmingham and Midland Association of Women Pharmacists, £1 10s.; Thames Valley District Pharmacists' Association (surplus of annual dinner), £5 8s. 6d. The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

This Committee reported that they had received three applications and recommended grants of £26 in one case, and £70 in another, subject to a favourable report. The report was adopted.

BRITISH PHARMACEUTICAL CONFERENCE

Mr. GUTHRIE reported that matters were well in hand for the Glasgow Conference, which he hoped would be very successful. The local committee were under the chairmanship of Mr. A. McMillan, who also happened to be chairman of the North British Executive, and preparations were quietly being made to give a cordial reception to those who attended the Conference.

PHARMACEUTICAL SERVICE IN THE ARMY

The Committee on Pharmaceutical Service in the Army reported that they had considered what further steps should be taken by the Society in the direction of obtaining recognition of the Society's claims by the War Office. They were of the opinion that the time was now ripe to proceed with a parliamentary and public campaign, and therefore made the following recommendation:—

That the branches be invited to appoint ex-Service delegates to attend a conference in London to be called by the President to consider the formation of a league of ex-Service pharmacists who would undertake a campaign in Parliament and elsewhere to press forward the Society's proposals for the reform of the Army pharmaceutical service, and that all pharmacists and their assistants who were ex-Service men should be invited to attend that meeting.

The report was adopted.

POISONS AND PHARMACY ACT, 1908

The chairman of the Law Committee moved, and the proposition was carried:—

That a circular letter be sent to all pharmacists, and also to all authorities granting licences under Section 2 of the Poisons and Pharmacy Act, 1908, bringing to their notice the additions to the Schedule. (See p. 341.)

This was all the public business.

Branch Meetings

Bath.—At a meeting of the Bath Branch on February 25, Mr. W. J. Hallett presiding, a lantern lecture on *The Structure of the Atom* was given by Mr. Frank Browne, F.I.C., Ph.C. By invitation the lecture was attended by members of the teaching profession and the students of several local schools. Mr. Browne showed how atoms were made up, how their capacity might be ascertained, and how their spectral lines were recorded. He went on to explain the properties of x-rays, and remarked that all matter gave off these rays. In the table of atomic numbers five elements were still missing, but their properties were known by their positions in the table. Many questions were asked and answered by the lecturer. A hearty vote of thanks was accorded on the motion of Mr. J. Aspell.

Cambridge.—The Cambridge branch met on February 26 at the Lion Hotel, Cambridge, to discuss the draft regulations. Mr. J. S. Shearman (chairman) presided over a good attendance. Mr. E. S. Peck explained the draft in detail. He realised, he said, that there were possibly some objections to be raised, and the Council was anxious that any new regulations proposed should be submitted to the branches before final adoption. Having explained the reason for the various alterations, he invited questions. Mr. Cannon suggested that the Society had parted with their powers of registration. He thought the short notice was oppressive to those already in the busi-

ness one or two years. He also spoke of the hardship in several districts to fill in attendance at lectures. Several speakers took exception to the difference in 2,000 hours and 4,000 for the qualifying of the pharmaceutical chemist and the chemist and druggist. Among those taking part were Messrs. Milbank, S. F. Barker, A. B. Barnard, J. B. Simmons, A. Deck and others. On the proposition of Mr. Cannon, seconded by Mr. Barker, it was unanimously resolved:—"In Part 3, Section 6, Subsection (b) for July 1, 1926, substitute December 31, 1928."

Harrogate.—At a meeting of the Harrogate Branch the following officers were elected:—Chairman, Mr. R. W. Crosby; Treasurer, Mr. H. R. Fletcher; Secretary, Mr. E. Butterfield. At the meeting special reference was made to the work done for the Society by Mr. A. Mortimer while residing in Harrogate, and good wishes were expressed for success in his new sphere of work at the Bar. Mr. Crosby acted as M.C. at the whist drive and dance which followed, and Mrs. Crosby presented the prizes.

Liverpool.—The adjourned meeting for the discussion of the regulations to be made under new by-laws was held at the Royal Institution on February 24. Mr. J. L. Hirst again presided over a representative attendance. Mr. Humphreys Jones thought the apprenticeship period, as proposed (4,000 hours in not less than two years), too short. Mr. Harold Wyatt moved, as an amendment to the regulations, that the minimum apprenticeship for both chemist and druggist and pharmaceutical chemist be three years. Mr. David H. Evans seconded. At the suggestion of Mr. L. Moreton Parry, the motion was divided. The voting in favour of three years for chemist and druggist was unanimous. "That the Preliminary examination should be the matriculation standard" was lost by a small majority. "That Latin be compulsory" was adopted. On the motion of Mr. Humphreys Jones, it was agreed to ask the Council to reconsider the school hours allotted for Part I of the Qualifying examination, the number specified being inadequate. Mr. Wyatt moved that the Welsh language should count in examinations as a modern language. Carried with three dissentients. In reply to a question, Mr. L. M. Parry said physics had been made prominent as being even more important to the pharmacist than botany. The mathematics required had been too elementary. An amendment was agreed to, unanimously asking that the pharmaceutical chemist and chemist and druggist should have absolute equality of treatment as to the term of apprenticeship. Mr. A. J. Jones, speaking of the higher or extended branches of the profession, of which the Pharmaceutical Society should retain the control, advocated that men of practical utility be trained to deal with serums, to be able both to make and to test serums. Mr. Wyatt agreed with Mr. Jones as to the importance of bacteriology, mechano-therapeutics and analysis. The delegates were instructed to take notes of these remarks.

Portsmouth.—Mr. W. R. Atterbury presided over a meeting of this Branch on February 25, when the chief speaker was Mr. John Keall, member of the Council, who discoursed on the Dangerous Drugs Act. A number of student-associates from the Technical College, mustered by Mr. F. Hemming, helped to make a full attendance. Mr. Keall spoke in good terms of the effect of the Dangerous Drugs Act, adding that sentiment and ideas of hardship must not interfere with "the clear course." He concluded by stating his opinion that veronal might with advantage be put under control. Several questions were put; in reply to Mr. E. H. Smith, Mr. Keall said that the negligence and ignorance of doctors would become rarer. Mr. Keall also spoke on the new by-laws, after which he was cordially thanked on the proposition of Mr. F. H. Ruoff (secretary).

Preston.—A meeting of the Preston Branch was held at the Café Orient on February 18, at which Mr. Parry, Member of the Council and Education Committee, gave an address on *Pharmaceutical Education*. During the discussion which followed several questions were answered.

Festivities

A Festive Evening

A HOT-POD supper, followed by a smoking concert, was held by the Sunderland and District Branch of the Pharmaceutical Society in the North of England Café, Sunderland, on February 26, when about sixty members and friends connected with the drug trade were present. Amongst these were three guests from Newcastle, Mr. Popham, Mr. Roper, and Mr. Noble. The President of the Branch (Mr. R. Anderson) was in the chair, and ably directed the proceedings. Songs were contributed by Mrs. Jackson, Miss Kilburn, Mr. Popham, Mr. F. Harrison, Mr. Brown, and Mr. Hodgson. Two effective recitations were contributed by Mrs. Armstrong (Seaham Harbour), and the songs were ably accompanied by Miss Kilburn and Mr. R. Anderson, jun. At the end of the concert a vote of thanks was proposed by Mr. Forster (Seaham Harbour), and was heartily accorded.

The "Hammers" at the Holborn

THE annual dinner and dance of the West Ham and District Association of Pharmacists was held at the

Holborn Restaurant, London, W., on February 26. The members and guests, who numbered approximately 200, were received by the President, Mr. C. A. Jones, and his granddaughter, Miss Olive Jones, and included Mr. and Mrs. J. Downing, Mr. and Mrs. F. A. Lawman, Mr. and Mrs. W. Potter, Mr. and Mrs. C. Andrews Pratt, Mr. and Mrs. Herbert Skinner, Messrs. W. J. Beardsley, J. Milner, W. E. Gaze, J. E. Evans, L. Kirkpatrick, J. Reed, J. Thomson, B. Wathen, and a strong contingent of representatives of wholesale houses.

In proposing "The Pharmaceutical Society: The Retail Pharmacists' Union," Mr. F. W. Gwynn, Vice-President of the Association, said an ultimatum had been issued that the speeches were to be brief, an injunction to which he closely adhered. The Council appreciated such toasts as this, stated Mr. F. Pilkington Sargeant, President of the Pharmaceutical Society, in the course of his reply, since they indicate the confidence members have in that body which, he declared, had never been more unanimous than it is to-day. The Council is trying to carry on the traditions handed down to it in such a way that those who follow will be able to look back on this generation as we do on the founders of the Society. Mr. Melhuish, chairman of the R.P.U. Executive, who also responded, mentioned that despite certain adverse bulletins, the R.P.U. is in a healthy and strong condition, and with the support of the members would continue in that state. Probably the majority were interested in an art other than pharmaceutical, but the R.P.U. was doing its best to advance their mutual interests. The relations with the Pharmaceutical Society were most cordial. The "West Ham Insurance Committee" was proposed by Mr. Soper and replied to by Dr. Challans. Mr. Soper commented on the excellent health enjoyed by the local population and the efforts being made still further to improve it—so much so that he thought they would shortly arrive at the state not of how to live, but how to die. Sir William Glyn-Jones gave "The West Ham and District Association of Pharmacists." He pointed out that the Association has won a prominent position among metropolitan associations, and in all branches of pharmacy, not forgetting sport. The chairman was probably the oldest pharmacist to occupy such a position, and the *doyen* of



MR. C. A. JONES

secretaries of Pharmaceutical Committees. The officers of the Association appear to be proud of their connection with the Society, since according to the menu everyone was a member of the Society. In his reply, the chairman said there were still some wise men in the East, and not a few in the West Ham Association. Every chemist in the borough is a member of the Association, and there is a number of unqualified assistants as associates. He received his first training in pharmacy from the late Dr. Charles Symes, Liverpool, who had always given him every encouragement. At the same time he had been an associate of the Liverpool Chemists' Association, along the lines of which the affairs of the West Ham Association had been carried on in the early days, though these had been somewhat altered of late. The Association was go-ahead, well supported by its members, and it would be a long time before its obituary notice appeared. In two years' time he and Mr. Keith would be celebrating their golden anniversaries as registered chemists. Mr. E. J. Raynor proposed "The Ladies and Visitors" in an eloquent speech, which was replied to by Mr. A. R. Keith, who suggested that the term "visitors" was rather cold, considering he and several others present had been attending the dinners for the past ten or fifteen years. He considered "friends" or "brothers and sisters" would be more suitable. A collection for the Pharmaceutical Society's Benevolent Fund realised £7 7s. The floor was then cleared for dancing.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

February Drug Tariff

The following are the alterations for February in the Insurance Drug Tariff for England and Wales:—

Lower.—Adeps lanæ, 1s. 6d. lb.; adeps lanæ hydrocos, 1s. 1d. lb.; aloinum, 9d. oz.; barbitonum, 2s. oz.; conf. sennæ, 1s. 9d. lb.; guaiacol carbonas, 1s. 4d. oz.; lin. tereb. acet., 2s. 6d. lb.; hq. formaldohyd., 1s. 1d. lb.; menthol, 6s. oz.; methyl salicylas, 3s. 4d. lb.; ol. caryoph., 15s. lb.; phenolphthalein, 10d. oz.; podoph. res., 3s. oz.; spt. chlorof., 5s. 4d. lb.; tr. senegæ, 6s. lb.; ung. resorcin. co., 3s. 9d. lb.; zingiber Jam. pulv., 3s. lb. Adhesive plaster, 6d. sq. ft. Bandages: ealico, bleached, 2 in. x 4 yds., 2d.; 2½ in. x 4 yds., 2.9d.; 3 in. x 4 yds., 3.4d.; unbleached, 2 in. x 4 yds., 2.1d.; 2½ in. x 4 yds., 2.6d.; 3 in. x 4 yds., 3.2d.; crêpe, 2 in., 12.3d.; 2½ in., 14.8d.; 3 in., 17.3d.; domette, 2½ in. x 6 yds., 9.2d.; 3 in. x 6 yds., 10.8d.; elastic web, 2½ in., 6.9d. yd., 3 in., 8.8d. yd.; flannel, 2½ in. x 4 yds., 10.4d.; 3 in. x 6 yds., 18.2d.; india-rubber, 2½ in. x 2½ yds., 25.0d.; muslin, 2½ in. x 6 yds., 2.5d.; 3 in. x 6 yds., 3.0d., 4 in. x 6 yds., 4.0d.; open wove, white, 1 in. x 3 yds., .7d.; 1½ in. x 4 yds., 1.3d.; 2 in. x 4 yds., 1.7d.; 2½ in. x 4 yds., 2.0d.; 3 in. x 4 yds., 2.4d.; 4 in. x 6 yds., 4.6d.; 6 in. x 6 yds., 6.8d.; plaster of Paris, 3 in. x 5 yds., 19.7d.; 4 in. x 5 yds., 24.8d. Catheters: gum-elastic, 6.0d.; soft rubber, 8.5d. and 15.0d. Cotton wools: boric, 1 oz., 2.2d., 2 oz., 3.9d., 4 oz., 7.5d.; sal-alembroth, 1 oz., 2.3d., 2 oz., 4.3d., 4 oz., 7.8d.; unmedicated, 1 oz., 2.6d., 2 oz., 4.9d., 3 oz., 7.2d., 4 oz., 6.8d., 6 oz., 10.1d., 8 oz., 13.0d., 1 lb., 25.0d. Gauzes: borie, ½ sq. yd., 1.0d., ½ sq. yd., 1.6d.; carbolic, ¼ sq. yd., 1.0d., ½ sq. yd., 1.6d.; double cyanide, ¼ sq. yd., 1.1d., ½ sq. yd., 1.7d.; iodoform, ½ sq. yd., 1.2d., ½ sq. yd., 2.1d.; pierie, ¼ sq. yd., 1.2d., ½ sq. yd., 2.1d.; sal-alembroth, ½ sq. yd., 1.0d., ½ sq. yd., 1.6d.; sublimate, ¼ sq. yd., 1.0d., ½ sq. yd., 1.6d.; unmedicated, ¼ sq. yd., 0.9d., ½ sq. yd., 1.5d., 1 sq. yd., 2.7d., 3 sq. yds., 7.2d., 6 sq. yds., 15.7d. Gauze and cotton tissue: 2 oz., 4.0d.; 4 oz., 7.5d.; 8 oz., 14.2d.; 1 lb., 28.5d. Ice bags: rubber, 110.0d.; check, 23.0d. Lints: borie, 1 oz., 2.0d., 2 oz., 3.8d., 3 oz., 5.4d., 4 oz., 7.2d., 6 oz., 10.2d., 8 oz., 13.0d., 1 lb., 25.5d.; sal-alembroth, 1 oz., 3.1d., 2 oz., 5.7d., 4 oz., 10.8d.; unmedicated, 1 oz., 2.6d., 2 oz., 4.9d., 3 oz., 7.2d., 4 oz., 9.3d., 6 oz., 13.6d., 8 oz., 18.1d., 1 lb., 35.5d. Protectives: gutta percha tissue, 4.5d.; jaconet, 3.6d.; oiled cambric, 3.8d.; oiled silk, 4.9d. per sq. ft. Splints, 5.5d. each. Standard dressings: No. 1, 2.7d.; No. 2, 3.9d. Suspensory bandages, 11.2d. each. Tows: carbolised, 8 oz., 5.6d., 1 lb., 10.8d.; unmedicated, 8 oz., 4.1d., 1 lb., 7.5d.

Higher.—Ammon. brom., 3s. 4d. lb.; argent. proteinat, 1s. 10d. oz.; ext. opii sicc., 9s. oz.; ol. amygdala, 6s. 6d. lb.; ol. lini, 6s. 9d. gal.; tab. nasal alkaline, 1.4d. doz.; ung. hyd. nit., 3s. 6d. lb.; ung. hyd. nit. dil., 2s. 6d. lb. India-rubber bandage, 2½ in. x 1 yd., 18.5d.

Associations' Winter Session

Belfast.—A committee meeting of the Chemists' and Druggists' Society General Committee was held at the Rooms, 11 Waring Street, Belfast, on February 26, Mr. Fred Storey (President) in the chair. The following sub-committees were appointed:—*Law*: Messrs. Suffern, Gibson, Carse, Abernethy, Guthrie, Rankin, Wilson. *Rooms*: Roberts, Wilson, Honeyman, Abernethy, Rankin. *Finance*: Gibson, Macauley, Guthrie, Rankin, Suffern. *Social*: McRoberts, Kells, Johnson, Abernethy, Wilson, Haydock. The President and secretary are *ex-officio* on all committees. The reception and whist drive, which is being given by the President and Mrs. Storey, was fixed for March 18, at 6.30.

Eastbourne.—The Eastbourne Pharmacists' Association held a meeting recently, at which Dr. Stanley White, of the scientific staff of Parke, Davis & Co., delivered a lantern lecture entitled *Some Recent Ideas in Connection with the Ductless Glands*. Dr. White described the situation of the glands and their relationship to one another. He also described some facts underlying the use of gland products for medicinal purposes. There was a good attendance of medical men.

Edinburgh.—The Edinburgh Chemists', Assistants' and Apprentices' Association held a meeting in the Pharmaceutical Society's House, 36 York Place, recently, when Mr. John H. Tainsh, M.P.S. (President) in the chair. In a paper on *Hardness of Water*, Mr. Henry Stout, Ph.C., first described the requirements of the 1885, 1898 and 1914 British Pharmacopoeias, passing to a consideration of soft and hard waters, and how to convert a hard water into the soft variety. The volumetric processes for estimating temporary and permanent hardness in water were also fully explained. Miss I. A. Purdie, Ph.C., read a paper on *Milk Analysis in the Pharmacy*, and gave a practical demonstration. The percentage of fat could be readily estimated by Adam's method. The milk, dried on blotting paper and extracted by dry ether, which had no action on milk sugar, readily gave the percentage of fat. The other factor easily determined was the specific gravity, the author describing how this was done. The reading of the papers was followed by a discussion, taken part in by Miss Purdie and Messrs. Blackie, Teasdale, Stout, and Tainsh.—At a meeting on February 25, Mr. John H. Tainsh (President) in the chair, a paper on *Solubilities in Relation to Compounding* was read by Mr. Peter Boa, Ph.C., who said the solubilities of salts indicated in the Pharmacopoeia were determined by methods scarcely convenient at the dispensing counter. In the Scottish climate prescription solutions were not often prepared at a temperature of 15.5° C. For practical purposes a sixth more of the solvent liquid should be added. Thus if the B.P. said 1 in 24 the addition of one-sixth would mean 1 in 28. Salts varied in the manner in which they dissolved in liquids such as mixtures—probably water with some tincture, glycerin or syrup. Some dissolved readily, citrates for example, while others, like potassium chlorate, were slowly soluble. Most salts while passing into solution caused reduction of temperature which retarded solution. If the compounder knew his solubilities he could judiciously employ in such conditions sufficient heat to counteract the cooling, and so economise time in effecting solution. Familiarity with the behaviour of substances often prescribed in other than aqueous menstrua frequently saved much time and worry. The various points were illustrated by examples. The second communication was on *Hypnotics*, by E. J. Schorn, Ph.C., A.I.C. Mr. Schorn, dealing with the purely chemical aspect, explained the preparation of some of the newer synthetic compounds used as hypnotics, and indicated their interrelationship by a series of graphic formulas illustrating their chemical structure. The examples were classified under three types: (a) Halogenated aldehyde type; (b) sulphone type; and (c) urethane type. A discussion followed.

Irish Rexall Chemists.—The Irish Free State Rexall Club held a meeting on February 17 at Jury's Hotel, Dame Street, Dublin, Mr. W. B. Conyngham, L.P.S.I.

(President), in the chair. Mr. M. L. Daniels, managing director, United Drug Co., Ltd., Nottingham, gave an address to the members, and Sir Thomas W. Robinson, director, United Drug Co., Ltd., and Hayes, Conyngham & Robinson, Ltd., Dublin, spoke on *Merchandising Methods*. Mr. W. J. Nolan, Dungarvan, described the *Rexall Idea*. An interesting discussion ensued. In the evening a Cinderella dance was held at the Engineers' Hall, Dawson Street, some 120 being present, and an enjoyable evening was spent.

Public Pharmacists.—A meeting of the Guild of Public Pharmacists was held at 17 Bloomsbury Square on February 25, the President (Mr. F. A. Hocking) in the chair. An illustrated lecture was given by Mr. E. Williamson on *Britain and the British Seas*. The lecturer showed how the configuration of the coasts of the Continents of the world made of Great Britain a natural centre for trade, and the experience of generations of traders had made Napoleon's taunt (a nation of shopkeepers) a fact to be proud of. A vote of thanks was proposed by Mr. F. E. Bullen and seconded by Mr. G. W. Gibson.

Southampton Chemists' Social and Athletic Club.—The annual meeting was held on February 25, the retiring President (Mr. W. W. Atkinson) in the chair. The President, before opening the proceedings, referred feelingly to the death of Mr. Stanley Hare, one of the younger and best-loved members of the club, and a vote of sympathy with his relatives was passed. The annual balance-sheet showed a favourable balance of £13 10s. 8d. The President, in the course of his address, spoke of the good feeling existing among the members and made a special appeal for new members. Mr. Pickup gave the football report, a highly satisfactory one. The following officers were re-elected:—Mr. Atkinson, *President*; Mr. Gay, *Secretary and Treasurer*; Mr. Benest, *Auditor*; and the *Committee*. Mr. Pearson was elected captain and secretary of the Cricket Club; Mr. Pickup, captain of the Football Club; Mr. Morris, secretary of the Football Club; Mr. Ferryman, captain of the Tennis Club; and Mr. Ogle, secretary of the Tennis Club.

Southend-on-Sea.—At the annual meeting of the Southend-on-Sea Association of Pharmacists, held at the Queen's Hotel, Westcliff-on-Sea, recently, Mr. George Bruce was re-elected *President*. Mr. Oldland *Treasurer*, Mr. S. W. Longthorne *Secretary*. A dinner followed the meeting (see p. 225).

Thames Valley.—A meeting of the Thames Valley District Pharmacists' Association was held at Kingston-on-Thames on March 4, the President (Mr. C. E. A. Goode) in the chair. Mr. Alfred Higgs, J.P., and the President were appointed delegates to the Glasgow conference in July. The matter of proprietary articles not on the P.A.T.A. list was considered in committee. The consideration of the proposed Metropolitan Pharmaceutical Executive composing the metropolitan group of associations was discussed at some length. Messrs. Goode and Higgs were appointed to attend the preliminary meeting and to report at the next meeting of the association. A discussion of the proposed regulations under the new by-laws was opened by the President. Mr. Higgs drew the attention of the meeting to the fact that no allowance had been made for what might be called "vested interests"—he referred to those who had already been registered as students; it was a breach of faith to those who entered the trade under the present regulations. He thought that some reduction should be made in the fees payable, and also that an allowance in the pass number of marks should be made. Mr. Tims referred to the draft of the apprenticeship deed, which made no allowance for an annual holiday for the apprentice; he considered that a clause should be inserted allowing a minimum of fourteen days, exclusive of the statutory holidays. Mr. Moss suggested that ten years should be allowed, to students who had been registered, to pass the Chemist and Druggist examination under some modification of the proposed plan. Messrs. Clement, Howells, Harrison and others also spoke on the subject. An informal discussion ensued on the working of the Dangerous Drugs Acts.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1925, p. 289.

(From "The Trade-marks Journal," February 4, 1925.)
"SAL" composed of tooth brushes, the letters being the initial letters of words, "Scientific, Antiseptic, Lasting" ("Sal" disclaimed); for tooth brushes (50). By S. A. Lazarus, 4 Lloyd's Avenue, London, E.C.3. 453,655. (Associated.)

(From "The Trade-marks Journal," February 11, 1925.)
KEY DEVICE; for chemicals (1 and 2), medicinal chemicals (3), scientific instruments, etc. (8), surgical instruments, etc. (11), food substances (42), mineral waters, etc. (44), and for goods (50). By Selfridge & Co., Ltd., 400 Oxford Street, London, W.1. 451,357/358/359/342/345/370/373. (Associated.)

"CRETAROL"; for all goods (2). By L. Allan & Co., Ltd., Rainford, Lancashire. 452,238.

"KAPS"; for medicated pastilles (3). By J. H. S. James, Bearwood Confectionery Works, Barnsley Road, Hagley Road, Birmingham. B448,596.

"GOLDEN LADY"; for all goods (3), (47) and (48). By W. Walker, junr., 164 Oakfield Road, Liverpool. 450,061; 449,922/923 (Associated.).

"EVANS'"; for medicines (3). By Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool. 451,057 (Associated.).

"RANALAK"; for medicinal chemicals (3), and for food substances (42). By G. H. Townend, 24 College Street, Dowgate Hill, London, E.C.4. 453,019/020.

"CAMOPILS" and "CAMOLETS"; for all goods (3). By Norton's, Ltd., 21 Spital Square, Bishopsgate, London, E.1. 453,946/947.

"LAVORIET"; for medicinal chemicals (3). By R. H. Harris, Finsbury House, Blomfield Street, London Wall, London, E.C.2. 453,962 (Associated.).

"DESMALT"; for medicinal malt extract (3), and for malt extract (42). By H. A. & D. Taylor, Ltd., Sawbridgeworth, Hertfordshire. 454,684/5 (Associated.).

"FLUMERGIN"; for medicinal chemicals (3). By W. Mardale, 10 New Cavendish Street, London, W.1. 454,755.

"AMIJNHARDT" in script; for medicinal chemicals (3). By A. Mijnhardt, Wondenbergscheweg 21, Zeist, Holland. 454,881.

"NAPCELL"; for sheets of cellulose for surgical purposes, etc. (11). By Robinson & Sons, Ltd., Wheat Bridge Mills, Chesterfield. 453,472.

"QUEDA"; for food substances (42). By F. W. Hampshire & Co., Ltd., Silk Mill Lane, Derby. 455,214.

"STRETON"; for mineral waters, etc. (44). By Jevsbury & Brown, Ltd., 7 Ardwick Green North, Ardwick, Manchester. 454,559 (Associated.).

"ALABASA"; for perfumery, etc. (48). By Pankhurst Brothers, 69-70 Mark Lane, London, E.C.3. 452,053.

"LADY DIANA"; for perfumery, etc. (48). By C. Davis, 22 Rue de Longchamps, Neuilly-sur-Seine, Paris. 453,039.

"KRENNA"; for perfumery, etc. (48). By Sangers, 258 Euston Road, London, N.W.1. 453,958.

"NOORJAHAN"; for perfumery, etc. (48). By M. N. Das, 6-7 Addle Street, London, E.C.2. 454,560.

(From "The Trade-marks Journal," February 18, 1925.)

"PETROHOL"; for isopropyl alcohol (1 and 2), goods (47), and for isopropyl alcohol for use as a cosmetic, etc. (48). By Standard Oil Co., Constable Hook, Bayonne, Hudson County, New Jersey, U.S.A. 439,981/982; 438,689; 439,983. (Associated.)

"AQUAVAR"; for chemicals (1). By Hadfields (Merton), Ltd., Western Road, Mitcham, Surrey. 455,042.

"HOLDENOID" and "HOLDITE"; for all goods (1). By A. Holden & Sons, Ltd., 218 Bradford Street, Birmingham. 455,073/074. (Associated.)

"VITAMINRALS"; for poultry medicines (2). By R. A. Angier, New Mousefield, Speen, Newbury, Berkshire. 453,657.

"IRVONA"; for a nerve and digestive tonic medicine (3). By Irvona, Ltd., 27 Finsbury Street, London, E.C.2. B448,824.

"WOLFE'S AROMATIC SCHIEDAM SCHNAPPS" with picture of Dutch girl, facsimile signature, and seal (Seal device disclaimed); for medicated Schiedam Schnapps (3). By Naamloze Vennootschap Handelsvereniging Udoelpho Wolfe Co., Gedempte Glashaven 36, Rotterdam, Holland. 450,293. (Associated.)

"TOROVIT"; for medicinal chemicals (3). By Hugon & Co., Ltd., Ogden Lane, Openshaw, Manchester. 452,755. (Associated.)

"LANSAGAROL"; for medicinal chemicals (3). By Roberts & Co., 76 New Bond Street, London, W.1. 454,912.

"PILLIKAM"; for medicated skin lotions (3). By G. B. Mackillip, 3 Aristotle Road, Clapham, London, S.W.4. 454,967.

"SULDERMIA" in script characters; for a skin disease preparation (3). By T. Miles, 17 Lennox Road, London, N.4. 455,017.

Monogram "C T L"; for medicinal chemicals (3). By Clifford Therapeutics, Ltd., 67 Madeley Road, Ealing, London, W.5. 455,076.

"NEUROCAPS"; for medicinal chemicals (3). By F. Clarke, 25 High Street, Newport, Mon. 455,092.

"DORMA"; for ear protection devices (11). By J. P. W. Alstone, Tudor Hill, Sutton Coldfield, Warwickshire. 454,425.

"FLOAT-ON-AIR"; for india-rubber inflatable cushions (40). By D. Mosley & Sons, Ltd., Chapel Field Works, Ardwick, Manchester. 454,616.

"VRILYA"; for food substances (42). By Bovril, Ltd., 148 Old Street, London, E.C.1. 454,557. (Associated.)

"NICOFF" in device form; for a preparation for removing nicotine stain (47). By C. D. Boltwood, 43 Campden Crescent, Beacontree, Essex. 454,266.

"SECRET CHARM"; for perfumery, etc. (48). By Solport Bros., Ltd., 184 Goswell Road, London, E.C.1. 442,445.

"MADELYS"; for perfumery, etc. (48). By Genevieve Bataille, 37 Rue Saint Lazare, Paris. 452,956.

"THYCENE" and "THYREX"; for preparations for the teeth (48). By International Laboratories, 10 Phoenix Place, Mount Pleasant, London, W.C.1. 454,094/096. (Associated.)

Circular Wedgwood device of winged horse and girls; for perfumery, etc. (48). By Vinolia Co., Ltd., Lever House, Victoria Embankment, London, E.C.4. 454,883.

"NESTO"; for brushes, combs, etc. (50). By Nestlé & Co., Ltd., 48 South Molton Street, London, W.1. 454,651.

(From "The Trade-marks Journal," February 25, 1925.)

Octagonal device of fantastic animal's head; for all goods (2) and (3). By Farbwerke vorm. Meister Lucius & Brüning, Hoechst am Main, Germany. 454,455/456. (Associated.)

"KELITA"; for veterinary chemicals (2). By E. P. Magee, Medical Hall, Farrell Street, Kells, co. Meath, Ireland. 455,391.

"SAPPHIRE"; for all goods (2). By Metaxa Brothers, 9-10 Fenchurch Street, London, E.C.3. 455,606.

"BÉATOL"; for a medicine (3). By Omnim Specialités et Produits Chimiques Société Anonyme, 11 rue Torrile, Paris (XXII). 446,474.

"SAL HEPATICA"; for an effervescent saline preparation (3). By Bristol-Myers Co., 40 Rector Street, New York, U.S.A. 443,711. (Associated.)

"EUTHANVI" and "MALTMAR"; for all goods (3). By Gland Products Co., Ltd., 48 Castle Street, Liverpool. 453,669/670.

Device of shield bearing name, "H. ALLEN," and surmounted by lion; for medicated beverages, etc. (3), distilled water, etc. (42), and for mineral waters, etc. (44). By Allen & Lloyd, Ltd., 21 Station Road, Aldershot. 450,121/122/123. (Associated.)

"CHUFUR-S" ("S" disclaimed); for medicinal chemicals (3). By Rowntree & Co., Ltd., Wigginton Road, York. 453,795. (Associated.)

"BURKUP"; for medicinal chemicals (3). By J. N. Nichols, 203 Chapel Street, Salford, Manchester. 454,174.

"PRESOJOD"; for all goods (3). By Chemische Fabriken Dr. Joachim Wiernik & Co. Aktien-Gesellschaft, 7-9 Oranienfamm, Waidmannslust bei Berlin, Germany. 454,439.

"RYTHMIN"; for medicinal chemicals (3). By G. W. Carnick Co., 417 Canal Street, New York, U.S.A. 455,196.

"VETNAR"; for all goods (3) and (48). By J. Hill, Breadsall Mount, Breadsall, near Derby. 455,322; 454,844.

"MOLAGAR"; for a laxative medicine (3). By W. R. Warner & Co., Inc., 113 West 18th Street, New York, U.S.A. 455,369.

"ULCERINE"; for ointment (3). By R. H. Ferris, 134 High Street, Peckham, London, S.E.15. 455,573.

"RUTONAL"; for medicinal chemicals (3). By Les Etablissements Poulen Frères, 86 rue Vieille-du-Temple, Paris. 455,610.

"SERULE"; for surgical instruments, etc. (11). By Behringwerke Aktien-Gesellschaft, Kettnerbach 11, Marburg on the Lahn, Germany. 452,378. (Associated.)

"VIROMALT"; for malt extract and malt extract with cod-liver oil for cattle foods (42). By Paine & Co., Ltd., Brook Street, St. Neots, Huntingdonshire. 452,181.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in barbelling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, March 5.

BUSINESS during the week continues quiet, so far as actual transactions are concerned, and price changes are comparatively few and unimportant. Japanese camphor slabs are firm on spot and dearer c.i.f. to arrive. Caraway seed has declined. Bismuth metal, as was anticipated, has advanced by 2s. 6d. per lb., and bismuth salts are accordingly dearer. Cod-liver oil has undergone a sharp decline, following good fishing results. Ceylon citronella is cheaper, owing to an accumulation of stocks. Japanese mint oil is dearer to come forward, and West Indian distilled lime is bought up as it arrives. Spot supplies are scarce. Bourbon geranium is dearer forward and a difficult market at present. Pharmaceutical chemicals are fairly steady, with price changes noted in amidopyrin, salol, sodium benzoate, and sulphonial, which are cheaper. Resorcin and salicylic acid are steadier. Aspirin has been in better demand at unchanged rates. Vanillin is a shade firmer. Among the industrial chemicals, business has been fairly active in potash products, particularly carbonate. Sodium nitrate is steadier, and in better demand. Ammonium chloride is selling well. Prices are generally unchanged, but acetone has advanced and oxalic acid is firmer. Betanaphthol is cheaper, and pure methyl alcohol has declined by £10 a ton for forward material. Among the fixed oils the demand is still unsatisfactory. Palm oils are weaker for all grades. Linseed oil is weaker, and turpentine is the turn easier. Coconut oils are cheaper. Shellac shows a considerable decline.

Higher	Firmer	Easier	Lower
Acetone	Geranium oil (c.i.f.)	Agar-agar	Caraway oil
Bismuth and salts	Lime oil (W.I.)	Anidopyrin	Caraway seed
Camphor	Mint oil (c.i.f.)	Benzic acid	Codliver oil
Hydrastis	Oxalic acid	Betanaphthol	Ground nut oil
Orange oil (Sic.)	Pepper	Bois de rose oil	Methyl alcohol
Oxalic acid	Soya bean oil	Cinnamon leaf oil (Cey.)	Palm oils
Rubber	Vanillin	Citronella oil	Pitch
Russian oil		Cloves	Salol
		Lemongrass oil (Cochin)	Shellac
	Stadier	Linseed oil	
		Methyl	
		sulphonial	
		Palmarosa oil	
		Sodium	
		benzoate	
		Sulphonial	
		Turpentine	
		White oils	

Cablegrams

BERGEN, February 26.—The market for finest medicinal oil has suddenly declined to 118s. per barrel c.i.f. London for 1925 crop.

BERGEN, March 3.—The total catch of cod for the whole of Norway since the opening of the season amounts to 7,100,000, against 6,500,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 14,677 hectolitres, against 14,099 hectolitres last year. The market for finest medicinal oil is quiet and easier at 115s. per barrel, c.i.f. London, for 1925 crop.

NEW YORK, March 4.—Business is fair. Balsam copaiba has advanced to 54c. per lb. American natural peppermint oil is dearer at \$15 per lb. Hydrastis has advanced by 5c. to \$4.10. Buckthorn bark is dearer at 7c. Carta-

gena ipecacuanha is cheaper at \$2.25; senega has declined to 55c.; belladonna root is lower at 15s. Balsam tolu has declined to \$1.55. Phenazone is cheaper at \$1.75.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	February 25	March 4
Amsterdam	Fl. to £	12.107	11.87 ¹ —11.88 ¹	11.93 ¹ —11.93 ¹
Berlin	M. to £	20.43	19.97—19.99	20.00—20.03
Brussels	Fr. to £	25.22 ¹	95.10—95.20	94.55—94.65
Calcutta	Per rup.	24d.	18d.—18 ¹ d.	18d.—18 ¹ d.
Constantinople	Pst. to £	110	930—940	950—965
Greece	Dr. to £	25.22 ¹	295—298	305—308
Italy	Lire to £	25.22 ¹	118.05—118.15	118 ¹ —118 ¹
Kobe	Yen	24.58d.	19 ¹ d.—20d.	20 ¹ d.—20 ¹ d.
Lisbon	Escu.	53d.	2 ¹ d.—2 ¹ d.	2 ¹ d.—2 ¹ d.
Madrid	Pts. to £	25.22 ¹	33.59—33.62	33.69—33.62
Montreal	S to £	4.86 ¹	4.76—4.76 ¹	4.77—4.77 ¹
New York	S to £	4.86 ¹	4.75 ¹ —4.75 ¹	4.76 ¹ —4.76 ¹
Oslo	Kr. to £	18.159	31.24—31.26	31.24—31.27
Paris	Fr. to £	25.22 ¹	92.30—92.40	93.35—93.45
Singapore	Per dol.	—	28d.—28 ¹ d.	28d.—28 ¹ d.
Switzerland	Fr. to £	25.22 ¹	24.76—24.78	24.78—24.79
Vienna	Kr. to £	24.02	337,000—339,000	337,500—339,500
Warsaw	Zloty to £	25.22 ¹	24.70—24.00	24.70—24.85

Crude Drugs, etc.

AGAR-AGAR.—No. 1 Kobe is slightly easier, with sellers at 5s. 10¹d. per lb. To arrive, 4s. 4d. c.i.f. is quoted.

ANTIMONY.—The tone seems a shade steadier after the recent fall, but there is no special feature. English refined is quoted about £70. Holders on the spot are not pressing offers, asking from £65 to £66 a ton. C.i.f. terms for parcels to arrive or for shipment vary from about £60 down to £56, according to position. The demand for antimony ores has slackened, and easier terms are entertained in the neighbourhood of 4s. 9d. per unit c.i.f.

BISMUTH.—The action of the Syndicate this week in raising the price by 2s. 6d., to 7s. 6d. per lb., confirms the views expressed in our editorial columns last week as to the changed aspect of the market. The advance created no surprise to buyers, who have found considerable difficulty in placing orders recently. It is probable that the demand will continue on a fairly good scale.

CADMUM.—A fair inquiry is coming forward, and sellers are asking 2s. 3d. to 2s. 5d. per lb. Supplies appear to be fully equal to current needs.

CAMPHOR (CRUDE).—Chinese is firmer at 2s. 4¹d. per lb.; January-March shipment is steady at 2s. 3¹d. c.i.f.

CAMPHOR (REFINED) is steady at 2s. 8d. per lb. for 2¹₂ lb. slabs. January-March shipment is firmer at 2s. 6d. c.i.f.

CARDAMOMS.—Single cases of Bombay seeds are selling at 8s. 5d. per lb., and Ceylons at from 8s. to 8s. 3d.

CASCARA SAGRADA.—A sale of 5 tons of new peel at 62s. 6d. per cwt. is reported; single tons can be had at 65s. One-year-old bark is offered at 70s.; two-year-old bark is getting scarce on the spot, and is quoted at 120s.

CASSIA FISTULA is steady, a parcel of lean but sound East Indian offering at 32s. 6d. per cwt.

CHAMOMILES.—Fair white flowers are offered at 85s. per cwt., and small to medium 75s. to 82s. 6d.

CLOVES are easier, with Zanzibar offering at from 11d. to 11¹₂d. per lb., and new crop at 1s. 0¹d. on the spot. For shipment sales include January-March at 10¹₂d. Sellers of March-May quote 10¹₂d. c.i.f. The landings during the week ended February 28 were 30, and the deliveries 974, leaving a stock of 11,641, against 35,948 in 1924 and 1,566 in 1923.

COCOA BUTTER.—Prime English on the spot is steady at 1s. 3¹₂d. per lb. in not less than 1-ton lots.

COD-LIVER OIL.—Our Bergen correspondent writes on February 26 that the codfishing at Lofoten has improved. The latest communications report a favourable catch at the principal fishing places. The total output of all

the Norwegian codfisheries compared with that of the previous years is as follows:—

	Catch of cod.	Yield of Steam-refined cod-liver oil	Livers for crude oils.
To Feb. 21, 1925 ..	4,000,000	8,122 hectol.	3,891 hectol.
" 23, 1924 ..	4,400,000	9,991 "	2,736 "
" 27, 1923 ..	6,300,000	12,921 "	3,622 "
" 25, 1922 ..	5,000,000	10,702 "	1,855 "
" 26, 1921 ..	6,900,000	12,571 "	2,337 "

The market is quiet, practically without sales. The latest reports about the catch has occasioned a sudden drop in the price, and sellers are offering at falling rates. It is stated that sellers quote 115s. per barrel c.i.f. London for non-freezing steam-refined new oil.

ERGOT.—A little more business is reported. Slightly wormy Portuguese has been sold at 2s. per lb. For sound 2s. 3d. is wanted.

EUONYMUS BARK of root is quiet, but steady, on the spot at 4s. 3d. per lb.

HYDRASTIS.—An active demand is reported from America with the market bare of supplies. Spot parcels have been practically cleared, only limited lots being obtainable at 18s. 6d. per lb.

IPECACUANHA.—Minas seems to be scarce at present. Sales of Matto Grosso are reported at 7s. 11d. per lb.

MAGNESIUM.—The tone is steady with a moderate demand, home makers quoting from 3s. 9d. to 4s. 3d. per lb. for small ingots, while powder ranges from 4s. 9d. to 6s. per lb. Advices from France report that a new concern has been formed there, whose manufacturing operations eventually will lead to more important competition in this article.

MENTHOL.—The spot position is steady at from 46s. to 47s. for Kobayashi-Suzuki; some forward business is reported at higher prices; 10 cases January-March shipment sold at 43s.

MERCURY.—The spot market has been rather nominal and the quotation of £12 5s. per bottle seems the nearest approach to market value, although dealers as a rule ask 2s. 6d., and even 5s. more for small lots. Fair-sized parcels might be had within that range. Comparatively low figures for shipment, c.i.f. London, at which business is impossible, are current. Sales might possibly be arranged on that basis at £11 10s. Tentative inquiries have been reported for shipment direct to India from Continental ports, but no business has transpired.

PEPPER is quiet on the spot, but firmer at 5 $\frac{1}{2}$ d. per lb. for fair black Singapore. Value of March-May and April-June is 5 $\frac{1}{2}$ d. c.i.f., Lampung is 5 $\frac{1}{2}$ d. per lb. Fair Tellicherry is 6 $\frac{1}{2}$ d., and Aleppo is 6 $\frac{1}{2}$ d. Muntok white pepper is firmer at 9 $\frac{1}{2}$ d. to 9 $\frac{1}{2}$ d. per lb. Sales include January-March and March-May at 9 $\frac{1}{2}$ d. c.i.f.

RUBBER is again dearer, and prices are 5d. per lb. better since our last report. The demand for spot has been fairly brisk, and although importers have at last shown an inclination to meet the market, there is very little rubber available. New York, during the past few days, has been sending buying orders for spot and afloat rubber, which shows that the "tightness" in America for the "near" positions is not exaggerated. Large shipments continue to be made from London, and last week 2,583 tons left the warehouses, against the small arrivals of 833 tons, thus showing a further substantial reduction in stocks of 1,750 tons. The London stock now stands at 23,255 tons. A "squeeze" for March is anticipated, but holders must not be over confident, as the present price is still very high. Quotations (Wednesday, 5 p.m.): No. 1 standard crêpe and ribbed smoked sheet, spot and March, 1s. 6 $\frac{1}{2}$ d.; April-June, 1s. 6 $\frac{1}{2}$ d.; July-September, 1s. 6 $\frac{1}{2}$ d. per lb., buyers.

SHELLAC is dull on the spot and lower, with usual standard TN orange quality at from 255s. to 260s.: fine second orange is 310s., superfine 360s., pure button 320s., AC cakey 265s., and GAL 260s. Sales for delivery include March 242s. 6d.; May at 240s. and buyers; August at 232s. 6d. and buyers.

TURMERIC.—Madras finger is offered in quantity at 62s. 6d. per cwt. on the spot. Slightly easier prices are mentioned for shipment at 47s. c.i.f.

The seed market remains very quiet and unchanged, except for caraway, which is lower, with prices as follows:—ANISE.—Spanish is 66s. per cwt. and Russian 60s. Levant is 49s. CANARY SEED.—Mazagan has sellers at 30s., but there is no demand, and Spanish, good bold, is quoted at 34s. 6d. CARAWAY.—Dutch is cheaper at 34s. to 35s. per cwt. c.i.f., spot is 38s. to 39s. CORIANDER SEED.—Sellers at 16s. on the spot for Morocco. CUMIN SEED is offered at 65s. for Morocco; Malta, 60s. DILL SEED is 22s. per cwt. FENUGREEK SEED.—Morocco is 18s., Spanish 16s. HEMP SEED.—Manchurian is 19s. per cwt. LINSEED.—Morocco is 25s. 6d. per cwt. MUSTARD SEED.—English offers at 35s. to 37s. 6d.

Essential Oils

BUSINESS generally is quiet, and price changes are unimportant. New arrivals of West Indian distilled lime oil have sold readily at steady rates. Bourbon geranium is firmer to come forward. Sicilian orange is dearer. Japanese mint has been in good demand and is dearer forward. Bois de rose and citronella oils are cheaper.

ANISE (STAR).—"Red Ship" is unchanged at 2s. 6d. per lb. on the spot, and drums at 2s. 3d. c.i.f.

BERGAMOT.—Forward prices of 37 to 38 l.a. are about the same level as last week, from 15s. 8d. to 16s. c.i.f. being about the average rate. On the spot, supplies are obtainable at from 15s. upwards, according to seller.

BOIS DE ROSE (FEMELLE).—The forward price having declined slightly, and the franc being cheaper, spot offers are a shade easier, with sellers at 17s. 9d. per lb. A further reduction would be made for quantity. Spot sales have been made recently at from 18s. to 18s. 6d.

CAJUPUT on the spot is steady, with sellers at from 2s. 11d. to 3s. per lb. for cases.

CARAWAY.—Good quality Dutch double-distilled is cheaper on the spot at 11s. 9d. to 12s. per lb. Crude is 1s. per lb. less.

CASSIA is nominal at 8s. 1 $\frac{1}{2}$ d. per lb. for 80 to 85 c.a. Forward prices are irregular at from 7s. 4d. to 7s. 9d. c.i.f.

CEDARWOOD.—American is offered at slightly below 80c. per lb., c.i.f., for April shipment. On the spot drums are offered at from 3s. 1d. to 3s. 2d.

CINNAMON.—Ceylon leaf is cheaper at 4 $\frac{1}{2}$ d. per oz. on spot, and 3 $\frac{1}{2}$ d. c.i.f. is quoted to arrive.

CLOVE.—English distilled is unchanged, with sellers at from 7s. 3d. to 7s. 6d. per lb.

CITRONELLA.—The demand is quiet and prices are tending easier. Ceylon offers at 2s. 9 $\frac{1}{2}$ d. per lb., and 2s. 9d. c.i.f. is quoted for shipment. Java is cheaper at 4s. 10 $\frac{1}{2}$ d. spot and 4s. 7 $\frac{1}{2}$ d. c.i.f. March-May is offered at 4s. 6d. c.i.f.

DILL.—English distilled is 22s. 6d. per lb. East Indian offers at 16s. B.P. oil is obtainable at from 17s. to 17s. 6d.

EUCALYPTUS.—Spot sales of 70 to 75 per cent. cineol have been made at 1s. 11d. per lb. Up to 2s. 1d. is quoted for higher percentages.

GERANIUM.—The firmness noted last week has been maintained, starting with advances from 160 fr. to 170 fr. per kilo c.i.f., and at the close 180 fr. (= 16s. 3d. per lb. approximately), c.i.f. Marseilles is current. A fair amount of business was done around 150 fr., but recent bids of about this figure were refused. The spot market is at present disorganised, and values vary as to holder; 21s. is the nominal figure, with reports of business below. Algerian is cheaper at from 26s. to 27s. New crop is quoted 230 fr. (= 19s. 3d. per lb. approximately), f.o.b. Algiers.

LAVENDER.—French 38 to 40 per cent. oil is slow of sale, offering at a fair range on the spot at from 29s. 6d. per lb. upwards as to seller.

LEMON.—Forward prices are still considerably above spot values, from 3s. 5d. to 3s. 9d. per lb. c.i.f. being current. Spot is offered over a fair range, with sellers at from 3s. upwards. It is reported that 3s. 6d. has been paid for well-known brands.

LEMONGRASS.—Cochin is quiet and easier at 4s. 9d. c.i.f. and spot at 4s. 10d.

LINALOE.—Mexican wood oil is unchanged at 18s. 6d. per lb. on the spot.

LIME.—New arrivals of West Indian distilled have sold readily at 8s. 6d. per lb. From 8s. 6d. to 8s. 9d. is quoted. Hand-pressed is 17s., and limited in supply.

MINT.—Japanese dementhrolised Kobayashi-Suzuki brand is in better demand for forward shipment. January-March has been done up to 15s. 3d. c.i.f., and for afloat 15s. 9d. c.i.f. has been paid. The spot position is firm at 17s. to 17s. 3d.

ORANGE.—Sicilian sweet is dearer forward at from 9s. 9d. to 10s. 3d. per lb. c.i.f. On the spot, sellers quote about 9s. 9d. West Indian is quiet at 9s.

PALMAROSA.—Is easier, offering at 14s. 9d. to 15s. per lb.

PEPPERMINT.—Only a limited quantity of American natural tin oil can be had at 63s. 6d. to 65s. per lb. A case or two of twice rectified water-white is offered at 67s. 6d. H.G.H. due in shortly is quoted at 72s. 6d., London terms. English is quoted at from 67s. 6d. upwards.

SASSAFRAS.—Genuine American on the spot is offered at 6s. 6d. per lb.

SHIU.—Fair sales of Japanese have been made to the Continent at 9s. per lb. c.i.f., at which there are sellers.

VETIVERT.—Case lots of Bourbon are offered on the spot at from 47s. to 48s. per lb.

WORMSEED.—Higher prices are quoted from the States in some directions, but present spot supplies are obtainable at unchanged rates, from 15s. 6d. per lb. upwards, as to seller.

The following arrivals of essential oils have taken place from the countries named during the period February 27 to March 4 inclusive:—Bergamot (It.), 23s. ; bois de rose (Fr.), 3 dm. ; canajuput (Dutch E.I.), 50 cs. ; camphor (Jp.), 10 dm. ; cananga (U.S.), 1 cs. ; caraway (Germ.), 11 cs. ; cinnamon (Seych.), 12 dm., (Cey.), 5 cs., 1 dm. ; citronella (Jv.), 8 dm., (Cey.), 34 dm., (Germ.), 1 cs. ; clove (Germ.), 3 dm., (Holl.), 10 cs. ; eucalyptus (Sp.), 3 dm., (Aust.), 40 cs. ; geranium (Réunion), 2 dm. ; lemon (It.), 293 cs., 50 $\frac{1}{2}$ cs. ; mint (Jp.), 75 cs., (Ch.), 1 cs. ; orange (It.), 101 cs., (U.S.), 5 cs. ; peppermint (U.S.), 3 cs., (Fr.), 14 cs. ; pine (Aust.), 1 cs. ; vetivert (Réunion), 3 cs. ; undescribed (It.), 58 cs., (U.S.), 10 cs., (Fr.), 1 dm., 2 cs.

Pharmaceutical Chemicals, etc.

THE market continues fairly steady, but there are the usual few slight alterations in spot values again to be noted.

ACETANILIDE (B.P. crystals and granular) remains quiet on spot, with offers at about 1s. 9d. to 1s. 10d. per lb. for quantities.

AMIDOPYRIN is quoted at cheaper rates, with the market of little interest to buyers: 14s. to 14s. 6d. per lb.

ASPIRIN is steady and business has been rather better of late. Dealers quote 5-cwt. lots at 2s. 11d. per lb. ; smaller quantities up to 3s. 3d. per lb.

BARBITONE.—Orders could be placed at 12s. 6d. per lb. for spot material. Quoted at about 12s. 9d. ; market sluggish.

BENZALDEHYDE (0.03) continues quiet but steady at 3s. to 3s. 3d. per lb.

BENZOIC ACID (B.P.)—Spot material, practically free from chlorine, is quoted in one or two instances down to 2s. per lb., but most offers are still from 2s. 3d. to 2s. 6d. per lb.

BENZONAPHTHOL is steady but inactive. Dealers are offering spot at 4s. 3d. to 4s. 6d. per lb.

BISMUTH SALTS.—Following on the advance in the price of metal by 2s. 6d. per lb. on March 2, makers of salts have advanced their prices (per lb.) as follow:—

	Under 1 cwt.	1 cwt.	Last week's cwt. prices (Withdrawn)
Carbonate	s. d.	s. d.	s. d.
11 0	10 9	7 11	
Citrate	10 9	10 6	8 3
Nitrate Cryst.	6 0	5 9	4 10
Oxide	12 4	12 1	9 10
Salicylate	9 6	9 3	7 8
Subchloride	11 0	10 9	8 11
Subgallate	8 6	8 3	7 1
Subnitrate	9 2	8 11	7 1

Quantities of 2 cwt. and upwards are subject to rebate of 3d. per lb. Liquor bismuthi P.B., in W. qts., 1s. 2d. per lb. ; 12 W. qts., 1s. 1d. per lb.

BROMIDES.—Quoted prices are about the same, but business is slow, and any alteration in prices is likely to be in buyers' favour. Ammonium, 1s. 10d. to 1s. 11d. per lb. ; potassium, B.P. crystals and granular, 1s. 4d. to 1s. 6d. per lb. ; sodium, B.P. crystals and granular, 1s. 6d. to 1s. 8d. per lb., for quantities.

CALCIUM LACTATE is steady and spot has been moving well at about 1s. 8d. to 1s. 9d. per lb.

CHLORAL HYDRATE (duty paid) is maintained at 3s. 10d. to 4s. per lb.

CITRIC ACID (B.P. crystals).—Dealers' offers to arrive are in the region of 1s. 4 $\frac{1}{2}$ d. to 1s. 4 $\frac{1}{2}$ d. per lb., less 5 per cent. Business is limited in volume.

CREOSOTE (B.P.) is unchanged, with spot prices at 2s. 2d. to 2s. 4d. per lb.

CREOSOTE CARBONATE.—Spot offers vary, with isolated lots quoted at 6s. 6d., other holders asking up to 8s. per lb. ; market is dull.

GUAIACOL CARBONATE shows no further decline in spot value on the quoted prices of 8s. 3d. to 8s. 6d. per lb. ; market quiet.

HEXAMINE.—Spot offers of 5-cwt. lots are down to about 2s. 10d. per lb. ; smaller lots range up to 3s. 2d. per lb. ; market is steady, but business is rather small.

HYDROQUINONE.—The spot position is steady at 3s. 11d. to 4s. 2d. per lb.

LACTIC ACID (B.P.).—Prices are steady at 2s. 7 $\frac{1}{2}$ d. to 2s. 9d. per lb. for spot material; technical, 50 per cent. by weight, £43 per ton.

METHYL SALICYLATE is fairly steady, but not in great demand. Spot prices unchanged at 1s. 8d. to 1s. 9d. per lb. in carboys, and 2s. 3d. per lb. in bottles.

METHYL SULPHONAL is cheaper this week, with dealers quoting at 21s. to 22s. per lb.

PARAFORMALDEHYDE is steady with some business about: in kegs, 2s. 2d. to 2s. 3d. per lb. ; small lots up to 2s. 6d. per lb. for 100 per cent. powder.

PARALDEHYDE continues to find some business, with the selling price about 1s. 3d. to 1s. 4d. per lb. in demijohns, and 1s. 7d. per lb. in bottles.

PHENACETIN.—Large spot lots are quoted at about 5s. 1d. per lb., with smaller lots up to 5s. 6d. per lb. Continental offers are cheap. The spot position is not firm.

PHENAZONE.—Business has been slow, but spot holders have made no further reduction in their quoted prices, which are at 6s. 9d. to 7s. per lb.

PHENOLPHTHALEIN is fairly steady, with the spot market rather quiet. Quantities offered at about 5s. up to 5s. 6d. per lb.

POTASSIUM PERMANGANATE (B.P.).—The reductions noted last week have interested buyers and the market now seems quite steady. In drums, 7 $\frac{1}{2}$ d. to 7 $\frac{3}{4}$ d. per lb. ; smaller lots, about 8d. per lb.

RESORCIN is steadier, with the best spot offer at 4s. 9d. per lb. ; other prices range to 5s. per lb. Market quiet.

SACCHARIN (550) is unchanged: duty paid, 62s. 9d. to 65s. per lb. ; in bond for export, 10s. per lb.

SALICYLIC ACID (B.P.) is steadier, with spot prices at 1s. 4 $\frac{1}{2}$ d. to 1s. 6d. per lb. for quantities.

SALOL is rather cheaper again, with isolated offers down to 3s. 8d. per lb. ; other offers at 3s. 9d. to 3s. 10d. per lb.

SODIUM BENZOATE (B.P.).—The general price for good material is easier at from 2s. to 2s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Spot offers for crystals and powder are fairly steady at 2s. 2d. to 2s. 4d. per lb., according to quantity.

SULPHONAL is a little easier, with dealers quoting at 14s. to 14s. 6d. per lb., according to quantity. Market dull.

TANNIC ACID (B.P. leviss) is steady, but not much in demand at 2s. 10d. to 2s. 11d. per lb.

TARTARIC ACID (B.P. crystals).—Dealers' prices continue to operate in the region of 11 $\frac{1}{2}$ d. to 1s. per lb., less 5 per cent. for quantities. British makers' prices are higher than this.

TERPIN HYDRATE is unchanged at 1s. 8d. to 1s. 9d. per lb., with the market dull.

THYMOL is steady, but of little interest at about 18s. to 18s. 3d. per lb., spot.

VANILLIN (100 per cent.).—The market is firmer at 25s. 3d. to 25s. 6d. per lb., with further advances expected.

The following are makers' prices (per lb., unless otherwise quoted):—Acid camphoric, 21s. to 19s.; iron ammonium citrate: B.P., 2s. 3d. to 1s. 11d.; U.S.P., 2s. 2d. to 2s.; green, 2s. 11d. to 2s. 6d.; mercurials: red oxide, 5s. 4d. to 5s. 2d.; corrosive sublimate, 3s. 9d. to 3s. 7d.; white precipitate, 4s. 8d. to 4s. 6d.; calomel, 4s. to 3s. 10d.; potassium citrate, 2s. 2d. to 1s. 10d.; sodium citrate, B.P.C. 1911, 1s. 11d. to 1s. 7d.; U.S.P. ditto, 2s. 2d. to 1s. 10d.; sodium nitroprusside, 16s.; sodium sulphide, pure recryst., 1s. 2d. to 10d.; ether, 720, 1s. 5d. to 1s. 1d.; ether, 720 purif., ex s.v.m., 2s. 3d. to 1s. 11d.; potassium acetate, 1s. 4d. to 1s. 1d.; terebene, 2s. 3d. to 2s.; acid phosphoric, 1.750, 1s. to 11d.; cadmium sulphate, pure, 4s. 3d. to 4s.

Industrial Chemicals, etc.

London, March 4.

CONDITIONS in the heavy chemical market show but little change after the movements recorded last week. Business has been fairly brisk in some articles, such as potash products, but formaldehyde, acetone and similar items remain dull.

ACETIC ACID continues to be quoted at £41 5s. for 80 per cent. technical; £42 5s. for 80 per cent. pure in barrels; 99 to 100 per cent. glacial, £67 10s. per ton, in glass demijohns, ex wharf, London.

ACETONE has advanced sharply during the week and £74 to £75 per ton is now quoted for B.G.S.

ALUM.—Demand has been better at last week's cheaper price of about £9 5s. per ton, for lump in casks, spot.

AMMONIA ALKALI (58 per cent. alkali) from British makers for home consumers only is unchanged at £6 15s. per ton, in free bags.

AMMONIA (ANHYDROUS).—Some business for spot, 99.95 per cent., in loaned cylinders, at about 1s. 5d. per lb. Cheaper for shipment in quantities.

AMMONIUM CHLORIDE is now steady and selling well on spot at about £29 per ton, for grey galvanisers.

ARSENIC.—The market in the United States is still weak and inquiries are few. American stocks are reported at 10,000 short tons at the end of February. Business on this side is confined to limited quantities, which are secured from the Cornish mines on terms ranging down to about £27 f.o.t. Selling agents in some cases, however, are holding out for better terms.

BARIUM CHLORIDE (98 to 100 per cent. prime white crystals) is offering on spot at about £10 15s. to £11 per ton, and at slightly cheaper rates for shipment from the Continent.

BLEACHING POWDER (35 to 37 per cent. available chlorine) is steady, with dealers doing a little business in the region of £9 10s. per ton.

BORAX, BORAX GLASS and BORIC ACID.—British makers' and dealers' prices for home trade only are unchanged.

COPPER SULPHATE.—The export demand continues fairly good and the shipments have been made on a fairly large scale. Makers are asking £25 up to £25 10s. for casks, f.o.b., less the usual discount.

CREAM OF TARTAR.—Dealers are offering freely at 79s. per cwt., less 2½ per cent., for 99 to 100 per cent. material, and are reported to be doing some business, mostly for forward shipment.

EPSOM SALTS (commercial quality) are steady and moving fairly well at £4 12s. 6d. to £4 15s. per ton, in bags, spot. Shipment prices for quantities a little cheaper.

FORMALDEHYDE continues very flat, with dealers finding business difficult at their quoted price of about £42 to £42 10s. per ton, for 40 per cent. volume.

GLAUBER'S SALT (commercial quality) on spot is worth about £3 10s. to £3 12s. 6d. per ton, in bags. To arrive from the Continent in quantities, the price is cheaper.

LEAD PRODUCTS.—There is no change in dealers' prices; the market is not at all active, but fairly steady. Acetate, brown, £44; white, £45 per ton, spot; litharge, £45 10s.; red lead, £45 5s.; white lead, dry, £44; ground in oil, £46 10s. per ton, c.i.f. London.

OXALIC ACID continues freely in offer, with the demand a shade better and prices firmer at 3½d. per lb.

POTASH CAUSTIC.—The lower price reported last week governs a very steady market, with plenty of business about: 8s to 9s per cent. solid, £30 per ton, in drums, spot.

POTASSIUM CARBONATE is attracting good business and dealers' prices at last week's cheaper rates are very steady: 9s to 9s per cent., £23; 9s to 9s per cent., £25 per ton.

POTASSIUM CHLORATE continues very steady, with the spot and shipment price about 3d. per lb., for crystals and powder.

POTASSIUM PERMANGANATE (commercial quality).—Good business is reported, and dealers' prices of 6½d. to 7d. per lb., in drums, according to quantity, are very steady.

POTASSIUM PRUSSIATE.—There is a continued demand for yellow, with dealers' prices steady to firm at about 7½d. per lb.

SAL AMMONIAC is very steady and good business is reported after the reductions notified last week: dog-tooth crystals, £42; medium, £38; fine white crystals, £24 to £25 per ton, spot.

SALTCAKE is firm, with supplies restricted; bulk quantities for home trade, £3 15s. to £4 per ton, d/d.

SODIUM ACETATE is rather easier, with business slow: ex stores, £21 15s. per ton. Market is not steady.

SODIUM HYPOSULPHITE.—Business continues slow and limited in size: pea crystals (photographic quality), £13 12s. 6d. to £13 15s. per ton, in 1-cwt. kegs; commercial quality, in casks, £9 5s. per ton, spot. Rather cheaper for shipment.

SODIUM NITRATE has been in a little better demand of late and the market is steadier: 9s per cent. £13 5s., refined, £13 7s. 6d. per ton, f.o.r. docks, London. Liverpool prices, 2s. 6d. per ton less. Business is not so good as it should be at this time of the year.

SODIUM NITRITE (100 per cent. basis) is steady, but moving slowly at about £23 15s. per ton, f.o.r. London. Manchester prices are cheaper.

SODIUM SULPHIDE seems of little interest to buyers. Dealers quote 60 to 62 per cent. solid at £13 7s. 6d., and broken at £14 per ton, in drums.

SULPHUR.—Prices are steadily maintained with moderate business. American or Sicilian crude range from £5 5s. to £5 7s. 6d., delivered Middlesbrough. Quotations for refined stand at £9 12s. 6d. to £9 15s. for flowers, and £7 15s. a ton for roll, delivered London warehouse.

ZINC OXIDES.—British makers' prices as reported last week. Market flat.

COAL TAR PRODUCTS, ETC.—Pure methyl alcohol is much cheaper. Pitch is again at a reduced price on quotation, with little doing. Other items are about level on the week, with business moderate. ANILINE OIL and SALT meets with small business, and selling prices at about 7½d. to 7d. per lb., naked at works. BETANAPHTHOL is a little cheaper with prices from 1s. to 1s. 1d. per gallon. TOLUOL: 90's, 1s. 5d. to 1s. 6d.; pure, 1s. 8½d. per gallon: business good; prices steady. XYLOL—Pure, 3s. 3d.; commercial, 2s. 3d. per gallon; market quiet. CREOSOTE OIL is steadier and shows no further fall in prices, but business is not very bright: 6½d. to 7d. per gallon, ex works, and 7½d. to 7d. per gallon, f.o.b. in bulk quantities. CARBOLIC ACID crystals are steadier, but the demand is comparatively small; quotations run from 5½d. to 5½d. per lb., in bulk quantities, f.o.b. CRESYLIC ACID, 97 to 99 per cent., remains dull and at last week's lower rates of 1s. 9d. to 1s. 10d. per gallon. NAPHTHALENE has been in small demand, with flakes at £15 to £16 per ton, according to district. Pure METHYL ALCOHOL is much cheaper, with dealers quoting for material to come forward at £50 per ton. HEXAMETHYLENE has been slow for some time; quoted at about 3s. 1d. to 3s. 2d. per gallon. PYRIDINE is steady but quiet; quoted at 18s. 6d. per gallon. PITCH.—A further reduction of a shilling in the market price, making the value 4s. 6d. per ton, f.o.b. East Coast, is recorded. Business is still lacking.

Fixed Oils, etc.

SOME items show a little improvement after several weeks of slackness, but generally business is still far from satisfactory in this market. Palm oils are weaker. Linseed oil and turpentine both show a slight decline. Cocomut and groundnut are lower. ACID OILS.—The market is steadier and prices are improving: coconut/palm kernel, 42s. 3d.; groundnut, 39s. 6d.; soya, 34s., all spot. CASTOR.—Steady but inactive; pharmaceutical, 69s.; first pressings, 64s.; second pressings, 61s., all spot. COCONUT.—Very quiet with prices much cheaper; deodorised, spot, down to 51s.; Ceylon, e.i.f., 46s.; Cochin, e.i.f., 52s. COTTON.—A slight improvement with the market steadier; deodorised, 54s.; common edible, 52s.; soapmaking, 50s.; crude, 48s. 6d., all spot. GROUNDNUT.—Again lower with the market still flat; deodorised, spot, 57s.; crude Oriental, c.i.f., 52s. PALM

KERNEL.—Still quiet but steadier; deodorised, 48s.; crude, 48s., 5d., all spot. **PALM.**—Further reductions in prices of all grades with the market still flat; Lagos, 42s., 6d.; softs, 42s.; mediums, 41s.; hards, 40s. 9d.; bleached, 45s., all spot. **RAPE.**—Dull but no further loss in spot values; refined, 55s.; crude, 52s., all spot. **SOYA.**—Prices tend to advance and the market closes slightly firmer; deodorised, 50s. 6d.; crude, 48s., all spot. **LINSEED.**—Raw, naked. Market has been rather quiet and at the close is easier. On spot 50s. 6d.; March/April, 49s. 3d.; May/August, 49s. 3d.; September/December, 48s. Hull, on spot 49s. 3d.; March/April, 49s. 3d.; May/August 49s. 3d. **TURPENTINE.**—No important alterations either way are noted, and the undertone is very steady. America appears to be the chief sustaining factor at present. There has been a further reduction of the reserve stocks in the southern markets. Spot business has been quiet, and the deliveries from stocks have continued moderate. Certain parcels have been coming from France, and the quantities afloat from America amount to 2,900 barrels. Last week's deliveries totalled 1,808 barrels, making the aggregate since January 1 16,844 barrels, against 24,205 barrels same period last year. The London visible supply amounts to 26,948 barrels, compared with 25,405 barrels same date last year. American reports favour the continuation of a steady to firm market in view of a more active consumption. Spot closes easier at 64s. 3d. and April 64s. 9d. **WOOD.**—Hankow in barrels on spot is again cheaper at 67s. on a flat market.

LUBRICATING, MINERAL AND BURNING OILS.—One or two minor changes are recorded. White oils are cheaper. Lubricating oils are fairly steady, but quiet on spot. Other items show no change. **BENZOL.**—Conditions continue firm, with business brisk and supplies short: standard motor, 1s. 9 $\frac{1}{2}$ d. per gallon, delivered London area; pure, 1s. 10 $\frac{1}{2}$ d. per gallon, ex works, in tank wagons. **FUEL OIL** is steady, but quiet: 950 gravity, £4 2s. 6d.; 890 gravity, £4 17s. 6d. per ton, ex-tank. **PARAFFIN WAX** and **SCALE.**—Market firm: wax, 3 $\frac{1}{2}$ d. to 5 $\frac{1}{2}$ d. per lb., according to melting point, in bags; scale, 29s. per cwt., c.i.f. U.K. port. **SOLVENT NAPHTHAS** are steady but quieter in demand: 90 to 160. 1s. 4d. per gallon; heavy, 90 to 190, 1s. 1d. per gallon, with some business about. **PARAFFIN OILS.**—Firm at unchanged prices: American standard white, 1s.; water white, 1s. 1d. per gallon, barrels free; Russian prime white kerosene, 6 $\frac{1}{2}$ d. to 7d., ex tank; 7 $\frac{1}{2}$ d. buyers' barrels filled free, and 10 $\frac{1}{2}$ d. per gallon, barrels free, ex wharf, London. **PEIROLEUM JELLIES.**—No further fall in values; market remains quiet: white to snow white, £56 to £60; amber and yellow, £24 to £26 10s.; red vet, £21; dark stiff green, £18 per ton, in drums and barrels free, ex wharf, London. **WHITE OILS.**—Quoted prices are cheaper; market remains dull: Special No. 1, £33; No. 1, £30; No. 3 half-white, £26; No. 4 half-white, £18 per ton, barrels and drums free, ex wharf, London. **LUBRICATING OILS.**—The spot market is unchanged, with business limited; the tone is none too steady: Pales, £12 to £24; reds, £14 to £26; dark cylinders, £15 10s. to £35; filtered cylinders £22 15s. to £36 per ton, less 2 $\frac{1}{2}$ per cent., ex wharf, London. **SOLUBLE OIL.** £20 to £29 per ton, net. No. 1 RUSSIAN OIL is slightly dearer at £18 15s. per ton, less 2 $\frac{1}{2}$ per cent., ex wharf, London.

German Drug Markets

REPORTS from Germany show that the demand for drugs has recently improved, and in consequence of short supplies of indigenous drugs, prices for the latter have advanced. The following quotations give the prices, in marks for one kilo, at which transactions were concluded:—Ergot, m. 4.80; liquorice, natural, m. 0.85; liquorice, peeled, m. 1.85; lycepodium is scarcely obtainable at m. 6.70; sage, m. 0.58; lime-tree flowers, old stocks, m. 1.60 to 1.80; German chamomiles, old stocks, m. 1.30: for coltsfoot the demand has been so brisk that supplies had to be imported, and fetched m. 1.80.

Italian Drug and Chemical Markets

Genoa, February 28.

THE foreign exchange brought the English pound sterling as high as 118 lire and the dollar towards 25 lire, greatly complicating business with England and the United States. As to Germany, the value of the gold mark remains almost constant, and active business in chemicals as a result has been taking place between the two countries. Not all the products offered, however, came directly, but from speculators who, fortunately for them, purchased chemicals when prices were lower. The chief incentive, however, toward a similar situation was the long credits accorded to Italian buyers. The sale of pharmaceutical products and colouring matters was influenced by the offers of the products received on account of war reparation. In the pharmaceutical pro-

ducts the quotations did not always correspond to those that could be made by English, German, Italian, and French producers, and business was often lost. In soda crystals fair sales have been noted, and in soda ash business has also been good, especially as the Italian product was never available in sufficient quantities for satisfying all needs. The demand continued fair for bicarbonate of soda, silicate of soda, yellow prussiate of potash, bleaching powder, calcium chloride, borax, sulphate of soda, ordinary alum, chrome alum, iron sulphate, bichromate of potash, and bisulphite of soda. The demand has been active for sulphuric acid, and for bone glue, fish glue, pure calcium chloride, raw glycerin, glucose of all qualities, excepting for sweets, pure nitrates of soda and lime, sulphate of magnesia crystals, carbon disulphide, raw tartar, shellac. Drugs and pharmaceutical products have also been active, and increases are noted in the prices of manna, mannit, nutmeg, mustard seeds, senna leaves, tamarinds, vanilla, saffron, milk sugar, pure arsenious acid, pure boric acid, etc., other products remaining unchanged in price. Essential oil of bergamot has advanced, while orange oils and mandarine oil remained unchanged. Lemon juice is dearer. The demand for fertilisers has been good, and an increase noted in the prices of nitrates of soda and lime, sulphate of ammonia, calcium cyanamide, potassium chloride, potassium sulphate, etc., while lime superphosphates remained unchanged, and bone superphosphates fell further. The demand for foreign sugar continues strong, although many Italian refineries had their warehouses filled with last season's production in awaiting the replacement of new protection tariffs. The following prices are quoted for pharmaceutical products, drugs and chemicals (per kilo, in lire):—Glaeal acetic acid, 12.50 to 13.50; arsenious acid, 7.50 to 9; boric acid, 7.50 to 9; citric acid, crystals, 17.50 to 18; carbolic acid, crystals, 10 to 10.50; laetic acid, 3.50 to 4.10; oxalic acid, 5 to 5.50; tauric acid, crystals, 12.50 to 13; alum, 0.95 to 1.50; bicarbonate of sodium, 1.95 to 2.45; borax, crystals, 4.45 to 4.65; carbonate of magnesium, 4.50 to 5.10; citrate of magnesium, 12 to 12.75; chlorate of potassium, crystals, 4.90 to 5.20; formaldehyde, 40 per cent., 7.50 to 7.70; refined glycerin, 11 to 12; quinine hydrochloride, 5.40 to 5.50; easter oil, 11 to 12; cod liver oil, 7 to 7.50; potassium permanganate, 8.50 to 8.70; quinine sulphate, 4 to 4.20; Ceylon cinnamon, 35.70 to 35; cloves, 26 to 28; nutmeg, 36 to 37.

Dominican Lime Industry

THE report on the economic and financial conditions in the British West Indies which has recently been issued states:—The lime industry of Dominica has been practically ruined by an outbreak of wither病 in May 1922. The 1923 crop resulted in heavy losses, and, with the prospect of still heavier losses before them, planters are endeavouring to introduce other products in place of limes. Coconuts and vanilla are considered the most suitable, but as some time must necessarily elapse before these products yield any return, the cultivation of annual crops will have to be undertaken in the meantime. So far, however, no decision has been reached on the matter, although it is one of extreme urgency.

East Indian Tamarinds

ACCORDING to the varieties of fruit, the tamarind tree (*Tamarindus indica*) is divided into three classes: (1) The sour fruited, (2) the sweet fruited, and (3) the red fruited. The pulp of the fruit of the last variety is of a rose colour, and commands the highest price, and is preferred for preserving. Of the three parts of the fruit, viz., shell, seed and pulp, the last is the most useful, say Mr. H. N. Batham and Mr. L. S. Nigam, in a paper published by the Agricultural Research Institute of Pusa. It is for the sake of the pulp that the fruits form a regular article of commerce. Besides their consumption for edible purposes in India, they are largely exported to Europe. According to "Tropical Agriculture," a new market has sprung up for tamarinds in Italy, where it is in demand for the manufacture of syrups and sweetmeats. According to the same authority, the average annual yield of an adult tree is 350 lb. of pods or fruits, which represents 200 lb. of prepared pulp. The pulp is thus about 75 per cent. in the fruit. The average percentage of the seed and the pulp as determined in the decorticated fruits available in the Cawnpore market, is 32 and 68, respectively. Therefore, the greatest part of the fruit is the pulp, which principally consists of sugars and tartaric acid. The sugar content ranges from about 30 to 40 per cent., and tartaric acid from about 9 to 15 per cent., according to analysis of different samples of tamarind procured from the Cawnpore market, as well as from the analyses by other workers.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Selling Wireless Apparatus

SIR.—The article by Mr. F. Melville Thomas (*C. & D.*, February 28, p. 304) is very interesting, opportune and, as you say, optimistic. Since I wrote on this scientific side-line for chemists in the *C. & D.*, there has been very little mentioned on the subject, and I welcome this article. While disagreeing with Mr. Thomas's policy, he has certainly justified it. With regard to "dabbling" in "parts" and wireless "knick-knacks," Mr. Thomas must remember that, in spite of his policy, 90 per cent. at least of wireless buyers to-day are purchasing "parts." Therefore he must be missing business. Speaking as one whose wireless turnover is nearly twice the amount mentioned by Mr. Thomas, I can truthfully say that it has been built up on that class of trade. It requires knowledge and courage to tackle it, and I am afraid several have been sadly hit in the experiment. But I am convinced chemists are missing an adjunct to their photographic counters by refusing to deal in wireless goods, and it requires more scientific knowledge than even photography. Sneers at "knick-knacks" and their being ironmonger's goods (as some would have it) does not move me, any more than selling a vacuum flask (also sold by ironmongers). To bring grist to the mill is the slogan, and until the day dawns when the future "graduate" in business looks down in disdain on our paltry work, I am afraid some of us will have to be "up and doing"—even wireless. It is a pleasure to me to discuss such subjects with customers and at the local radio club, and many pleasant evenings are spent in this way, to the benefit, somewhere, of business. As to the profits, Mr. Thomas mentions a minimum which can easily be surpassed by careful buying and "knowing the market." I hope the article will re-open the subject, and if I can do a bit towards helping others to earn an honest penny, I shall be very pleased to do it, either from a scientific or a business point of view. I congratulate "gallant little Wales" on the enterprise shown by Mr. Thomas, and I am sure there are many who would be glad to have further enlightenment on this subject.

Yours respectfully,
ELECTRON (28/5).

SIR.—The article by Mr. Thomas is very interesting, and, as another who is also a wireless dealer and holds an agency for Marconiphones, I do not altogether agree with Mr. Thomas's opinions. Marconiphones give excellent reception, and are about as "foolproof" as it is possible to make a commercial set. But it is doubtful if any ready-made apparatus on the market is equal to the home-assembled receiver of the careful experimenter. No one who has a ready-made apparatus gets the same joy out of it as the man who has carefully bought each component, studied the wireless papers, paid his licence (so that his conscience does not twinge when he hears Captain Eckersley), and carefully assembled the latest circuit. I have yet to meet the man who has not had his set to pieces several times and re-arranged the components. The real future of the success of the wireless dealer lies in the sale of the best components, which are not necessarily the most expensive. I am sorry to say it, but the cheaper French telephones beat the English for reception and durability. I had a customer in the early days who wanted a wireless set, but thought £25 on a passing fad was too much to pay. I did my best to sell him a R.M.S., but it never came off. He purchased all the wireless papers, and finally decided on a crystal set, which was hopeless at this distance. But he got ships' Morse, and became excited. From that to a valve was not long. More valves came quickly; a loud-speaker followed. He heard about purity of re-

ception, so the low-frequency transformers were scrapped and resistances used, and so on. The house is now full, and his wife grumbles at the litter, and grumbles if the wireless is not going. She has the satisfaction of knowing where he is, anyhow—either at home or seeing what new components have arrived. He has spent over £100 with me, and what he spent at the last wireless exhibition I don't know. There are heaps like him. Men love assembling, building and making gadgets; their wives call it "mucking about." Now, seeing that this is so, why not humour them? Give him some wire, some tools and valves to play with, keep him up to date with literature and you have a customer for life. With the commercially-made apparatus you just supply batteries, new valves when the old ones burn out; they never get "shorted." And the free service they require—why, you have never finished with them. The experimenter carries on till he gets things going again. If Mr. Thomas had sold components as well as Marconiphones, he probably would have had a turnover of £20,000.—Yours truly,

JIX (2/3).

The By-Laws and After

SIR.—I have pleasure in replying to Mr. Thomas Marns's request that I should tell him why "the P.A.T.A. are the real enemies to fight." Before proceeding, I should like to make it clear that my remarks refer to the "proprietors of patent medicines" section of the P.A.T.A. The official representatives of pharmacists appear to be only ornamental and, as such, must be excused any responsibility. I know nothing of their intimate working, but results justify my conclusions. Bearing the foregoing in mind, I have endeavoured upon various occasions to focus the attention of pharmacists on the menace of the P.A.T.A. to our material welfare and its obstruction to our ideals. Our ideals are embodied in the advancement of the knowledge of pharmacy and corresponding service to the community. The law recognises us as responsible persons for the dispensing of medicines and medical sundries. Qualifying by examination and all that it means, we have earned these privileges. Yet we have this "proprietor section" usurping these privileges right and left, forcing upon us the duties of automatic machines in the distribution of their goods to such an extent that their sales now average at least 60 per cent. of our turnover. In no other profession are outsiders allowed to encroach in this way. While with our privileges we are officially controlled in our rightful sphere, these people are allowed to exploit us and the public, subject to no control whatever. As dispensers of medicine to the public, surely it is degrading to be compelled to hand over these packages without knowledge of their contents, especially when we know that these so-called remedies are but a method of "get-rich-quick" merchants who have no knowledge of the individuals for whom they presume to prescribe and dispense, their only interest being the cash-drawing power of their advertisements. The thoughtful student in pharmacy to-day, whose future depends upon what pharmacy can give him, will feel some trepidation when he realises how the sales of these patent medicines are being added to daily. The greater the increase of these sales the more pharmacy will wane. Shall it be that after years of strenuous learning and acquiring his "degree in pharmacy," all that he can look forward to will be the distribution of this class of goods, and the learning he has acquired, to be locked away, in common with his soul, in bondage? There must be stricter cohesion among pharmacists in order to combat these insidious enemies. It can be done! We must put aside our apathy and selfishness. We must fight and even make sacrifices for the benefit of those who come after. The proprietors of patent medicines are enemies to our self-respect and to our status. I hope Mr. Thomas Marns, as a prominent retail pharmacist, will look kindly upon my effort, and from his eminence endeavour to guide us in the straight and narrow way towards our ideals.

Faithfully yours,
Willesden, N.W.

MAURICE JONES.

SIR.—The letter by Mr. Maurice Jones concerning the new pharmaceutical training (*C. & D.*, February 21, p. 285) is in accordance with the cold facts. No one in his senses would deny the advisability of better training and more knowledge. Most of us would strive after it if we saw some tangible reward; but the rewards in pharmacy are not to the honest craftsman, but to the business man and the glib-tongued salesman with an eye on the commission. I have heard it stated that a scientific education curbs the imagination; so why should we handicap ourselves more in earning a living? The directors of pharmaceutical education seem out of touch with the source from which the money comes—the general public. The public, knowing there is a legal standard for drugs and medicines, consider a mixture made at a multiple drug store for 1s. 3d. as good as a mixture made by a pharmacist for 1s. 9d. The following is the scale of wages in a multiple company's shop: Manager, £4 4s.; first girl, 18s. 6d.; second girl, 9s.; cashier, 9s. (+ 1s. 6d. for four hours' work on Sunday). The price list of this company is 20 per cent. below the *C. & D.* Retail Price List. I believe that the N.H.I. age limit in girls is also calculated for economy's sake. To obtain the best-paid positions in this concern, pharmaceutical knowledge is not so essential as sublime self-assurance and an autocratic disposition. The reference by a celebrated man to "lobbying" in the House of Commons in order to mutilate a Bill in favour of a private interest shows that the laws affecting pharmacy are biased in favour of the monied shareholders of drug companies; and until this bias is removed, there is little good in tinkering with pharmaceutical education. A logical nation like the French, a methodical nation like the Germans, see to it that things pharmaceutical are differently worked. Since most of the profits in pharmacy go to the principal drug companies, I do not see why the Pharmaceutical Society should not ask them to shoulder the responsibility of pharmaceutical training.

I am, etc.,

DOES THE SPEARMINT LOSE ITS FLAVOUR (2/3).

SIR.—As usual, "Jay Mack" hits the nail on the head. The P.A.T.A. is the chemist's great ally, when large firms are cutting patents to such an extent that Femmings' Fever Curer is being sold by them at 11 $\frac{1}{2}$ d. When one looks around and sees the present position of the qualified man, and of pharmacy, the methods of raising their status by the Pharmaceutical Society seem singularly inept. Messrs. Boots contemplate 2,000 branches; they promote shop boys to assistants, and their value of a qualified assistant is £3 10s. per week. Messrs. Stotherts, manufacturing chemists, are distributing circulars from house to house, free samples of aspirin powders and catalogues of their medicinal preparations. They also state: "If your local grocer does not stock our preparations please send us his address." So the Pharmaceutical Society institutes harder training, and a degree in pharmacy! And the stores laugh.—Yours, etc.,

MINOR MAN (4/3).

SIR.—I am surprised to read in recent *C. & D.* correspondence that "the P.A.T.A. and Boots are the enemies to fight." I have always thought the P.A.T.A. a great boon and Boots very fair competitors. Compare Boots' current prices with those of some of the cutting chemists in South London:—Quinine wine (25 oz.), 1s. 6d. (Boots, 2s. 1 $\frac{1}{2}$ d.); cotton-wool (1-lb.), 1s. 3d. (Boots, 2s. 11d.); aspirin tablets, 4d. (Boots, 5d.); malt and oil (1-lb.), 11 $\frac{1}{2}$ d. (Boots, 1s. 1 $\frac{1}{2}$ d.); Pine Catarrh Cure, 6d. (Boots, 8 $\frac{1}{2}$ d.); liquorice pellets, 3d. (Boots, 6d.). Their chief weapon is cleanliness. During recent months' absence from the retail my wife sent several times to local private chemists for various goods, and we were astonished at the number of articles supplied with soiled labels, faded wrappers, bad corks and general appearance of neglect. Can one wonder at my wife now sending to Boots? Further, too many chemists forget the value of "own name," in spite of repeated letters reminding them. Do Boots overlook this? No, their name is on every blessed article they sell, practically! Several firms pack goods for chemists only, yet one sees ten chemists displaying various health salts that

can be bought of any huckster for every one displaying, say, Mineral Spring. While on "competitors," I saw a good display of a well-known make of chemists' goods in a Home and Colonial Stores' window in London the other day at prices lower than are usually fixed. I do think it is rather the limit when this firm of grocers is supplied with the same style of packing as genuine chemists.—Yours faithfully,

SPECTATOR (4/3).

SIR.—The suggestion that all pharmacists should receive the title "pharmaceutical chemist" has much to recommend it. In the first place, it would settle the question of the name "chemist" by distinguishing the pharmaceutical one, and it would fall in with public usage by keeping the word chemist for a pharmacist in business. Further, it would perpetuate the title itself, which is now in danger of extinction. Except to the few who are in favourable circumstances, it is to the pharmacist in a retail shop a physical impossibility to undertake an educational course, and to the coming generation what does the Major offer at present? It is unnecessary to the student who intends to follow a business career, and the good positions in hospitals and other institutions are not sufficient in number to offer any considerable number of openings.—Yours, etc.,

ANDY (2/3).

Impending Changes in Ireland

SIR.—There is a strong and growing feeling, among pharmaceutical chemists in Northern Ireland, in the direction of affiliation with the Pharmaceutical Society of Great Britain. It is to be hoped that at the smoking concert, to be given on or about St. Patrick's Day by the President of the North Irish Pharmacists' Association, members will be given the opportunity of voicing their views in the matter. I write this letter now—as the Pharmacy Bill may come up in the Parliament of Northern Ireland before the Association's meeting—with a view of having a permissive clause inserted. The view has been expressed in connection with affiliation with the Pharmaceutical Society of Great Britain: "How are we going to arrange for that if we are having a separate Society for Northern Ireland?" It has been suggested that we ought to get details arranged with the parent Society, else our Act of Parliament would stand in the way, and that this could be done by introducing a clause providing for such arrangements being made with the Pharmaceutical Society of Great Britain, giving us power to affiliate, etc., our legal advisers drafting a permissive clause which would only operate if we wanted it to do so. I hope this permissive clause will be inserted in the Bill; it can do no harm, and it will enable us to have, "si opus sit," what would be the wider view, viz., affiliation with the parent Society. I say: be eclectic—go in for the best, let us have the larger craft fellowship (for many reasons, *inter alia*, economic, educational, a better status, also altruistic reasons)—our assistants, when qualified, we cannot absorb; they must have an outlet beyond the six counties of Northern Ireland.—Faithfully yours,

Belfast.

SAMUEL HOGG

The Revised Drug Tariff

SIR.—Although the revised drug tariff is a step in the right direction, the actual benefits appear to have been pared down considerably from what pharmacists were led to expect. Take the paragraph relating to proprietary articles; in actual practice this really only benefits the contractor in the case of pills or tablets, as in the case of liquid preparations, or even ointments, the allowance for the bulk quantity does not hold good when the article is dispensed with other ingredients. Then there is the question of addition and deletion of drugs on the tariff list; the contractor is supposed to stock all items printed in the list, so that any addition means a further investment of capital in stock, the lines deleted still remaining. Moreover, the new drugs may only be in use in certain districts and in other areas not at all, yet the chemist is compelled to have them. There will have to be further amendments before the anomalies are eliminated.—Yours truly,

CONTRACTOR (26/1).

Legal Queries

S. C. C. (23/2).—The draft labels are quite correct and fulfil the requirements of both the Dangerous Drugs Acts and labelling order.

P. D. (23/2).—The toothache remedy (P.F. 16) should be labelled: "This preparation contains chloroform 1 in 2, and in accordance with the Pharmacy Acts is labelled 'poison.'"

M. & T. (20/2).—The preparation you mention comes within the mineral waters exemption of the Medicine Stamp Acts. Being outside the Act, proprietary rights can be claimed in the name without affecting the question of stamp duty.

A. S. (18/2).—The wording for the poison declaration on your cough mixture label should be: "This preparation contains codeine phosphate 1 in 436 [or 0.25 per cent.] and in accordance with the Pharmacy Acts is labelled 'poison.'"

A. W. M. (31/1).—The seventeen articles containing "dangerous" drugs which are exempted from the regulations made under the Dangerous Drugs Acts are all scheduled poisons under the Pharmacy Acts, and when sold the conditions laid down in the Acts must be observed.

Silverpen (18/2).—The similarity of the two labels is, in our opinion, so close as to form good evidence in a passing-off action in the High Court, but much depends upon the style of packing. Apart from the question of copyright, the design of the label may have been registered.

F. C. (20/2).—There must be no claim to proprietary rights in the title of "known, admitted and approved" remedies. The title of the remedy is the one attached to it on registration of the formula; this and the reference number must be stated on the label of the preparation.

I. S. Co. (25/2).—The Order in Council which requires the name and proportion of a scheduled poison contained in any preparation to be declared on the label does not come into force until January 1, 1926, but it is advisable in drawing up new labels to anticipate the requirements of the Order.

T. M. H. (20/2).—Dispensing "dangerous" drugs prescriptions for a doctor under agreement does not absolve him or you from the provisions of the Dangerous Drugs Acts and Regulations. There is no such thing as contracting out of the requirements. The doctor's idea is correct for a dispensary on his own premises and for a person in his employ; otherwise the Regulations must be obeyed by both parties.

M. S., Ltd. (20/2).—In the declaration on the label of the proportion of poison in your cough mixture under the Order in Council, the ext. ipecac. liq. and chloroform are best treated as used for making extemporaneous preparations outside the labelling order (see *C. & D.*, Feb. 7, p. 188, and Feb. 28, p. 300). The tr. chlorof. et morph. B.P. '85 would work out at 1 in 124, and tr. camph. co. B.P. 1 in 60. It appears better in this case to give these figures than the percentages.

Loz. (24/2).—B.P. lozenges as a rule are approximately 20 grains in weight, but the sale of troch. morph. et ipecac., if they are a few grains under, is quite safe and would not constitute an infringement of the Dangerous Drugs Acts. The limit of morph. hyd. in a 20-gr. size is $\frac{1}{16}$ grain, but the B.P. amount present is $\frac{1}{2}$ grain, which would allow a reduction in weight of the lozenge to 15 grains and yet be under the limit of the Dangerous Drugs Act.

L. U. L. (27/2) bought a business, three years ago, from a man named Smith, and immediately changed the trading style from "John Smith" to "Smith & L—," the latter being his own surname. The vendor now threatens to proceed against "L. U. L." unless he discontinues the use of the name Smith, in spite of the

fact that he is no longer in business and raised no objection when "L. U. L." announced his intention to trade as "Smith & L—." What do we advise "L. U. L." to do? [In the circumstances, we cannot conceive any ground upon which the vendor can support his threat. We, therefore, advise "L. U. L." to ignore it and continue to use his present trading style.]

J. F. G. (25/2) asks whether a promissory note must be drawn up by a solicitor. If not, what form of wording is required when no definite date of payment is to be specified. [No special wording is essential for a promissory note; nor need it be drawn up by a solicitor. The usual form is, as under:]

£50. *London, March 2, 1925.*
ON DEMAND, I promise to pay to J. Jones or order the sum of fifty pounds, value received.

S. SMITH.

A promissory note must be stamped according to the amount for which it is given, as follows:—Up to £10, 1d.; up to £25, 3d.; up to £50, 6d.; up to £75, 9d.; up to £100, 1s.; and for every additional £100 or part of £100, 1s. Stamped bill forms, suitable for a promissory note, can be obtained at the post office.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. P. (27/1).—PREVENTIVE OF ABORTION IN CATTLE.—This preparation is a dark-red liquid smelling strongly of crude "carbolic" acid. It has the properties of the crude acid—that is, of cresylic acid. Ether extracts from alkaline solution a small quantity of material closely similar to wood tar. It contains no mineral matter. It leaves 1.07 per cent. total solids at 100° C., and this has the characters of wood tar. The preparation appears, therefore, to be cresylic acid (that is, crude "carbolic" acid) mixed with a little wood tar. The sp. gr. is 1.041.

E. R. (30/1).—PREVENTING EFFLORESCENCE IN BATH SALTS.—We are assuming that the base of the bath salt is sodium carbonate, and this on keeping becomes effloresced or covered with a white powder, due to a change in the amount of the water of crystallisation, and it is this that leads to the solidification of the bath salt. What is wanted is some treatment that will tend to keep the crystals separated. It has been found, for instance, that if a comparatively large quantity of essential oils is used the crystals become "greasy" and are prevented from adhering. This cannot often be adopted, but we suggest the addition of a little "soluble oil" (sulphuricinate of ammonia) to the mixture of perfumes, which are incorporated with the crystals by spraying or otherwise. This, we think, should help to protect the crystals from the action of the atmosphere, and would not prevent the ready solubility of the salts when put into water.

S. T. P. (31/1).—HOMOEOPATHIC TINCTURES.—The homoeopathic mother tincture of cina is made by percolating cina with rectified spirit by the method given in the British Homoeopathic Pharmacopœia. Sulphur is a saturated solution in absolute alcohol (tr. sulphuric fort.). Phosphorus tincture is a saturated solution in absolute alcohol made by the process described in the B.H.P. The last two are only sold as attenuations, as they precipitate on change of temperature. Merc. viv. is prepared by long-continued trituration with alcohol. Merc. sol. is a long process which begins with the solution of mercury in nitric acid and precipitation by ammonia. Merc. corr. is a solution in rectified spirit, but on account of danger is only kept in higher dilutions (1^x and upwards). There are no formulas for these in the sense that B.P. articles are made. The operations involved are described in detail in the British Homoeopathic Pharmacopœia, and require a good deal of study to carry out correctly.

W. J. B. (7/2).—COMPACT FACE POWDERS are made by compressing face powder moistened with weak tragacanth mucilage into blocks so that the upper surface of the disc is convex or concave as required. The blocks are dried at normal temperature, and when dry are attached by glue to the inside of the box in which they are to be sold.

F. H. R. (13/2) writes: Do we understand that when infusions "ex conc." are prescribed by panel practitioners—i.e., when a doctor writes, say, "inf. gent. co. ad 3xij."—that we are supposed to dilute the concentrated infusion with tap water. This seems to be a neat little point tucked away so that the chemist nine cases out of ten will use distilled water where he will only get paid for tap. [The prices given in the Drug Tariff for aromatic waters made from the concentrated preparations do not include the price of distilled water. When the question of chemists' terms was being discussed early in 1921 the Ministry of Health, in a letter dated April 7, 1921, notified the Local Associations Executive Committee as follows:—

With regard to the ex concentrata preparations the Department have decided to discontinue with the coming into force of the revised Tariff the use of distilled water in all medicated waters, decoctions and infusions prepared from the concentrated compounds. On and after April 1, 1921, therefore, the prices for these preparations will be calculated without reference to the price for distilled water.

In the 1921 Tariff this principle was incorporated, but it was not stated quite so clearly.

The price (of the aromatic water) is determined by calculating the price per pound of the concentrated water, decoction, or infusion to the nearest first decimal place, and dividing this figure by the concentration of the original concentrated water. . . .

This wording is substantially the same as that in the revised drug tariff for February 1925. It is quite possible that chemists do not appreciate the fact that the tariff price allowed for (say) 10 oz. of aq. menth. pp. "ex conc." is the cost price of 2 drams of aq. menth. pp. conc. (1.40). Chemists are expected to dilute this with tap water, and not with distilled water.]

J. F. G. (16/2).—BOOKS ON WIRELESS SETS.—The following books published by Radio Press, Ltd., Bush House, Strand, London, W.C.2, will meet your requirements: Mittell's "How to Erect Your Wireless Aerial" (1s.); Scott-Taggart's "How to Make Your Own Broadcast Receiver" (1s. 6d.); Redpath's "Wireless Sets for Home Constructors" (2s. 6d.); Rankin's "Pictorial Wireless Circuits" (1s. 6d.); Redpath's "Wireless Sets for Home Constructors" (2s. 6d.).

W. B. (16/2).—The salary paid young qualified men nowadays is from 90s. to 100s. per week, according to experience and ability. If indoors it would be 30s. or 35s. less.

E. B. (16/2).—GARDENER'S SKIN IRRITATION.—From what you state, the skin irritation from which the gardener suffers is probably due to *Primula obconica*. It is a favourite flower, as it blooms freely. There are several varieties, and it is well known to produce a kind of eczematous eruption of the skin, especially those whose skin is exceptionally sensitive. The irritant substance is secreted by glands and is of a resinous nature, so that washing with spirit, which would act as a solvent, would probably be the best means of removing the source of the irritation. The least touch seems to bring on the irritation in some people, and a gardener whose skin is susceptible should on no account enter a greenhouse where the plants are growing. *Rhus toxicodendron* is another of the plants that cause similar effects, and there are other *Anacardiaceae* which do the same. Rubbing the skin with chloroform so soon as the irritation is felt should be prescribed, followed by washing with soap and water. To soothe the skin use decoction of marshmallow.

R. S. (16/2).—STAMPING INKS.—A little soap or resin incorporated with the oil would probably overcome the spreading effect of the oily stamping ink.

C. & J., Ltd. (16/2).—TESTING FOR ARSENIC IN BEER.—The Commission which examined the question of the contamination of beer by arsenic at the time of the beer-poisoning scare in 1900 recommended Reinsch's test. The details of the test were given in the *C. & D.*, December 22, 1900, p. 980, as follows:—

Take 200 c.c. of the beer in a porcelain evaporating dish. Raise the liquid to the boiling point, and then add 30 c.c. of pure concentrated hydrochloric acid. Insert a piece of pure bright copper foil about $\frac{1}{4}$ in. by $\frac{1}{2}$ in. in size, and keep the solution gently boiling for forty-five minutes. If at the end of that time the copper remains bright and red the beer is free from arsenic.

Mr. W. Kirkby, M.Sc., Ph.C., who at that time investigated the methods, recommended Guitzert's test as generally used now on account of its trustworthiness. Mr. C. A. Hill's standardised method is now official in the British Pharmacopœia.

Valdor (16/2).—(1) STAIN REMOVER.—For light-coloured silk tapestry tincture of quillaia is rubbed in by means of a piece of flannel. A solution of saponin should be used if the colour of the tincture is darker than sherry. (2) CLEANING OIL PAINTINGS.—The surface should be washed with soap and water, then rinsed with clean water, and allowed to dry. Next go over the surface with a peldorf of cottonwool moistened with fresh linseed oil. If, however, the varnish has disintegrated the more difficult operation of removing this is necessary. This consists in rubbing the surface with the finger tips and sponging lightly with turpentine, care being taken not to remove any paint. Revarnishing will then be required. Experience should be gained on oil paintings of little value.

T. H. (16/2).—FERTILISERS (1) FOR CARNATIONS.—

Superphosphate (30-32 per cent, soluble)	44 parts
Fine bone meal	34 parts
Potassium sulphate	14 parts
Ammonium sulphate	20 parts

Apply 8 to 9 lb. to 43 square yards, or 8 to 9 cwt. per acre.

(2) FOR ROSES.—

Superphosphate	57 parts
Fine bone meal	96 parts
Potassium sulphate	78 parts
Ammonium sulphate	28 parts
Ferric oxide	5 parts

Apply in the spring and during early summer. Dig round the roots of the trees and bushes and work in a small quantity of the mixture. Repeat in five or six weeks' time.

B.—Liquid form:

Superphosphate	...	...	$\frac{1}{2}$ oz.
Ammonium sulphate	...	...	$\frac{1}{4}$ oz.
Iron sulphate	...	...	$\frac{1}{4}$ oz.
Water	...	...	$\frac{1}{2}$ gallons.

Use once a fortnight during April to August to the roots.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," March 15, 1875.

Adulteration Bill

The Adulteration Bill has occupied considerable public attention during the month, and the moment has come when tradesmen should bestir themselves with their representatives in Parliament. The Government has conceded the principle, which, after all, is but bare justice, that innocent people should not be declared guilty; but Mr. Selater-Booth seems impressionable on this point, and willing to adapt his measure to the wishes of those who speak the loudest. At this moment the analysts are shouting very vigorously, and assuming, with ludicrous confidence, the rôle of protectors of the public. We trust that traders will show themselves thoroughly in earnest in their efforts to secure a Bill which shall punish fraud, but fraud only.



[Commenced C. & D., July 5, 1924]

Calculating Machines.—Such machines not only perform addition, but also subtraction, multiplication and division, while the more elaborate ones can be used for wages and costing, labour and material distribution, dividend sheets, stock records, purchase and expense distribution, and general statistical information. They are also provided with keyboards for all currencies, weights and measures. Several makes of machines are on the market to-day at prices ranging from about £50 upwards, according to what the apparatus is capable of. Among the makers and agents for the better known types are : Sunstrand Adding Machines, Lanston Monotype Corporation, Ltd., Gilbert Wood, Guy's Calculating Machines, Ltd., Metro Bureau Equipment, Ltd., Burroughs Adding Machine, Ltd., and Monroe Calculating Machine Co., Ltd. *See also Adding Machines.*

Calendar.—A calendar, in the sense in which the word is used throughout this article, has been described as "a system of fixing the order, length and subdivisions of years so as to define the dates of events." The 365 days constituting the English year find their legal basis in the Book of Common Prayer, the calendar of which rests on a statute of the year 1662. The system now authorised in this country dates back, however, only to the Calendar (New Style) Act, 1750, amended by the Calendar Act, 1751, which decreed that the day following September 2, 1752, should be known as September 14, 1752, that every year should begin on January 1, instead of on the old date (March 25), and that years not divisible by 400 should not be leap years. The reason for that enactment was that by miscalculation on the part of astronomers the twelve months of the calendar no longer coincided with the solar year, the error (so far as the United Kingdom and its Dominions were concerned) amounting to eleven days. So long ago as 1582 Pope Gregory XIII, learning that a discrepancy existed, had by bull struck out ten days from the then existing calendar; but the reform had been adopted speedily by only four European countries, and it was nearly two hundred years before our own Legislature fell in with the modern style of reckoning. Since the adoption of the Gregorian calendar the distance between the old and new styles has increased by one day in a century, and has consequently been thirteen days since the year 1900. A further discrepancy in dates prior to 1752 arises from the adoption of January 1 as New Year's Day by Scotland in 1600. In books professing accuracy in such matters, dates from January 1 to March 24 inclusive in any year prior to the adoption of the new style in England are often referred to by giving both years—e.g., January 1, 1745/46; but the new style had been adopted by newspapers for nearly half a century before the Acts of Parliament establishing it came into force. The error in our present reckoning is computed at one day in 3,323 years. The most interesting of the world's calendars were described in *The Chemist and Druggist Diary*, 1898 (and previously in the 1883 *Diary*); the principal one from a practical point of view is the Roman, to which our own is intimately related. The Romans, while avail- ing themselves of data worked out by Greek investigators, reckoned their own epoch from the foundation of the city of Rome. Authorities differ on specific points, but it is generally agreed that up to the time of Julius Caesar the year consisted of ten months, the days of which were counted (backwards) from three fixed points—

the calends ("Calendæ"), nones and ides. In "Calendæ" (derived from "calo," I proclaim) we can see the origin of "calendar"; the calends (or kalends) were the first day of each month, the day on which the official proclamations were made, and were of further importance, as the day on which interest became due—hence the Latin joke, "Ad Calendas Grecas solvere" (to pay at the Greek calends), the Greeks having nothing corresponding to the calends. "Calendarium" in Latin meant an account-book. It is unnecessary, for the purposes of this monograph, to investigate the complexities of the Roman system of dividing the year. Starting with 304 days, it was increased by Numa Pompilius to 355 days, and by Julius Caesar (on the advice of the astronomer Sosigenes) to 365 days, with an additional day every four years. Julius Caesar's settlement was altered for the worse by his successor; and, long before Pope Gregory XIII's time, the Venerable Bede, Roger Bacon and others had observed an error in the accepted calendar. The mean length of the solar year is at present estimated at 365.2422 days. The technical terms employed in the calendar may be briefly referred to. The "dominical letter" indicates, by means of a table, how the Sundays in a given year fall: there are seven of these letters. The "golden number" or "prime" gives the rank of the year in the cycle of nineteen years which brings the sun and moon into correlation; "golden numbers," accordingly, run from 1 to 19. The "epact" shows the age of the moon on December 31. These particulars are brought into service in finding the date of Easter in any year. So early as the second century of our era disputes arose as to the correct date for celebrating Easter; and it has often been proposed that a definite Sunday should be adopted. The earliest date on which it can fall is March 22, and the latest is April 25. For the purposes of income-tax assessment the year runs from April 6 to the following April 5; but, by a statute of 1854, March 31 is fixed as the date up to which annual public financial statements are made. (*See also Day; Month; Time.*)

Calf Lymph, Storage.—Calf lymph should be protected from light and kept in as cold a place as possible. The tubes should never be carried in inner coat pockets, as calf lymph rapidly loses its potency when maintained at a temperature approaching blood heat. It has been found that glycerinated lymph, when stored at -5° C. for a year, retains its potency, but when kept at 10° C. for a similar period, it parts with its activity to an uncertain and considerable extent. A comprehensive account of its preparation was given by Dr. W. Harrison Martindale in the *C. & D.*, II, 1901, p. 629.

Calomel, or mercury subchloride ($HgCl$), is the hydrargyrum subchloridum or mild mercurichloride of the British Pharmacopœia. Like all other mercurials, its price depends upon the current market value of mercury, from which it is ultimately derived. Calomel may be made by sublimation or precipitation, but in any case it must be thoroughly washed with water to ensure freedom from the highly poisonous mercuric chloride (corrosive sublimate). Calomel is a heavy white or slightly greyish powder (s.g. about 8.2), the more bulky precipitated variety being reputed to be more active as a purgative. (Methods and formulas for preparing it in this form were given in the *C. & D.*, 1919, p. 569.) Calomel is *not* a scheduled poison. It produces purgation by increasing the amount of fluid entering the colon. There is always a possibility of calomel retained in the intestine being slowly absorbed and causing bowel irritation for many hours, and the custom of giving a saline aperient after calomel is to avoid any possibility of this effect. Ordinarily only a very small fraction of this mercury salt is absorbed. It retains a great reputation in relieving bilious attacks. Plummer's Pill (pil. hydrarg. subchlcr. co.) is a much-prescribed calomel pill. Calomel is the active ingredient in most of the proprietary children's soothing powders. Other uses of calomel are in ointment form to relieve the itch of pruritus ani, or psoriasis, and as an insufflation in syphilitic sore throat.

The C&D Commercial Compendium

Calumba.—The root of *Jateorhiza Calumba*, Miers, N.O. *Menispermaceæ*, a tall climbing plant growing in the forests between Ibo and the banks of the Zambesi in South Africa. The drug is exported to Europe from Mozambique via Zanzibar, and from Zanzibar to Bombay for the East. The large fleshy roots are collected in March, cleaned, cut into transverse slices, and dried in the shade. When dried the slices vary from 1 to 3 inches in diameter and from $\frac{1}{8}$ to $\frac{1}{2}$ inch in thickness. The slices are depressed at the centre, where the root is starchy and becomes contracted, the cortical portion remaining hard. The drug is met with in two conditions, one with a dull yellowish surface, and the other of a bright, clean appearance, which has been produced by brushing and washing the drug. Sometimes portions of the woody rhizomes are found mixed with the drug. These differ in being only 2 cm. in diameter, with a narrow cortex and conspicuously radiate wood, so that the centre of the piece is convex instead of being depressed or concave. The quality and price vary greatly, rising when the root is scarce to 55s. or 60s., but usually from 10s. to 25s. The powder is recognised by the sclerembymatus cells, containing rhombic crystals of calcium oxalate, complex as well as simple starch grains, with a more or less radiate hilum; and the yellow colour of the sclerenchymatous cells; also the pores of the porous vessels are elongated transversely. The active principle was formerly considered to be berberine and calumbin, but it has been shown that there are three crystalline yellow alkaloids closely allied to berberine, called calumbanine, palmatine, and jateorhizine, as well as the colourless crystalline principles columbin and chasmatherin, the former of which yields, when treated with acid or alkali, yellow columba acid, formerly supposed to be present in the drug. The Columbo wood of Ceylon, *Coscinium fenestratum*, is sometimes sent to this country under the name of Ceylon Calumba, but is easily distinguished by its flat, woody surface and the presence of small pith in the centre and the darker yellow colour throughout and the strongly radiate structure. It belongs to the same natural order as the Calumba, and is said to contain berberine.

Cambogia.—See Gamboge.

Camelhair.—Camelhair is a somewhat elastic term for a variety of soft hair of various origins, and, as regards its use for the small brushes commonly called "pencils" and the larger throat brushes and mops, the term offers an almost classic instance of a misdescription which by common usage has become so established as to possess a definite status. The better grades of the brushes which interest chemists and druggists are made from the hair of the tail of the squirrel, the large dark grey Siberian variety yielding the finest hair. For cheaper grades, Japanese pony hair or goat hair is frequently employed. For larger brushes or mops, skunk hair is often used on account of its length. A well-made "pencil" should taper to a fine point when moistened. The general sizes of "pencils" are commercially designated "crow," "duck," "goose" and "swan," the first being very small and the last comparatively large. Here again it would be anything but safe to assume that the quills are from the birds indicated, but the terms certainly offer a rough and easily remembered classification.

Camera Agrumaria.—This Chamber was created by a law promulgated in 1908 with the object of protecting the interests of producers and exporters of lemons and other *Citrus* fruits, and of promoting the commerce of these fruits, as well as the production and sale of their by-products. For this purpose the Chamber is charged with the task (1) of studying market conditions and the best means for promoting trade in these products; (2) of developing the consumption of *Citrus* by-products by finding new uses and applications for the same. Its activities also include controlling the purity and standard strength of concentrated lemon juice and of cal-

cium citrate produced in Italy, by issuing a certificate of analysis as a guarantee of standard. Further, the Chamber undertakes to sell, on behalf of the producers, the calcium citrate and concentrated lemon juice consigned to it for this purpose; to establish warehouses; to assist in the installation of citric acid factories, etc., by granting monetary advances, and finally to advance money on consignments of lemons and *Citrus* products deposited in these warehouses pending their sale. The Chamber has branches in Palermo, Catania, Syracuse and Reggio Calabria. In accordance with a law passed in 1910 and regulations issued in 1924, the Chamber also controls the manufacture of citric acid. Manufacturers of citric acid are obliged to furnish full particulars concerning their works, installation, space available for the storage of calcium citrate, citric acid, etc., stocks of which must be kept separate. Each factory has to keep a register in which all stocks purchased and sales have to be entered daily, a duplicate being kept by the Chamber. All consignments of citric acid must be accompanied by a licence issued by the Chamber, indicating quantity and destination; also no calcium citrate, or lemon juice, may be shipped or sent by rail unless accompanied by a certificate of analysis issued by the Chamber. Membership is not compulsory for producers or exporters, but in the case of goods sold or exported out of the control of the Chamber a differential tax is levied. The minimum sale price of calcium citrate is established by the Ministry in October of each year for the ensuing year, which also fixes the proportional amount which may be advanced to consigners on the quantities deposited in the warehouses pending their sale. For 1924-1925 the minimum sale price for 100 kilograms of calcium citrate with a content of 64 per cent. of citric acid has been fixed at 460 lire.

Camera Hire Charges.—The charge per day for the hire of a camera is based on 10 per cent. of the value of the instrument, with reductions for a week's hire. A deposit should be insisted upon.

Campine.—This is a synonym for rectified oil of turpentine (ol. terebinthina rect.).

Camphor Poisoning, Antidotes.—Cases of poisoning by camphor are rare. The emergency treatment includes use of the stomach pump and spt. ammon. arom. 3j. in water 3ij. Continued treatment consists of warmth, brandy, digitalis and strychnine hypodermically, and coffee enema. Death is recorded in the case of an adult three days after taking 180 grains, and in the case of a child 20 grains was sufficient.

Camphor, Synthetic.—The commercial article known as "synthetic camphor" is not, of course, the camphor built up by Komppa's classical synthesis, and, for the purposes of the Safeguarding of Industries Act, has been decided not to be a synthetic chemical. There are a large number of patents for the preparation of artificial camphor, the resulting product always being optically inactive, in contradistinction to the natural article. Every method uses turpentine as the raw material. A typical process is the conversion of pinene into pinene hydrochloride, from which hydrochloric acid is abstracted, when a rearrangement of the terpene molecule to camphene is effected. The camphene is heated with acetic and sulphuric acid, by which means it is converted into isobornyl acetate. This is saponified, and the isoborneol is oxidised into camphor. Artificial camphor is identical with natural camphor except in optical activity. It is used in the preparation of celluloid, etc., when it can be produced to compete in price with the natural article.

Camwood.—A dyewood obtained from *Baphia nitida*, imported from the West Coast of Africa. It yields its colour to water much easier than sandalwood, and, like this, is sometimes used in wool dyeing.

MARCH 7, 1925

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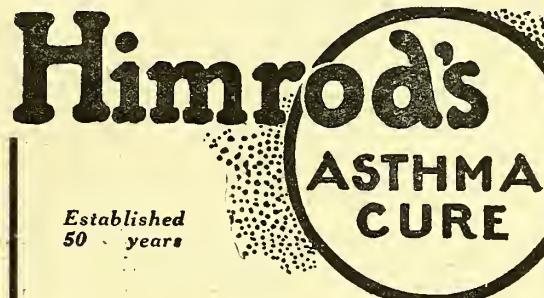
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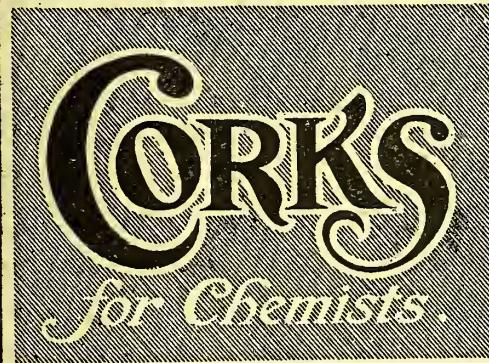
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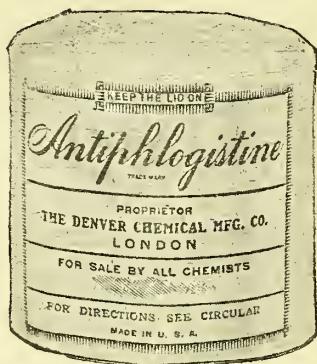
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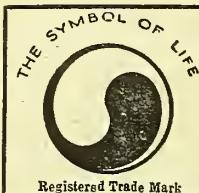
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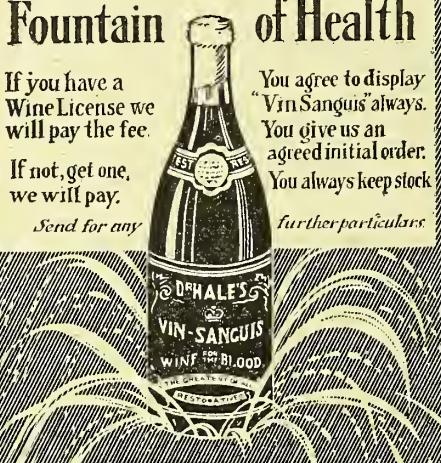
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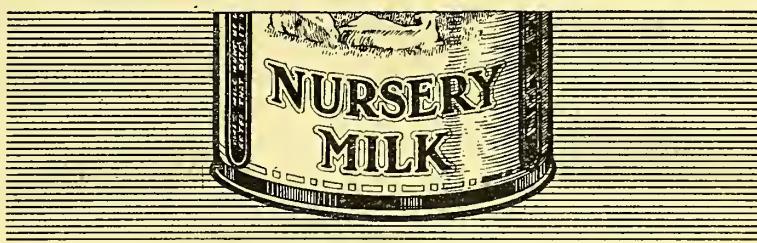


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Lactalbumen	0.4	0.3	0.60
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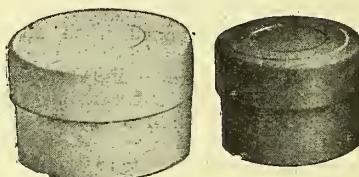
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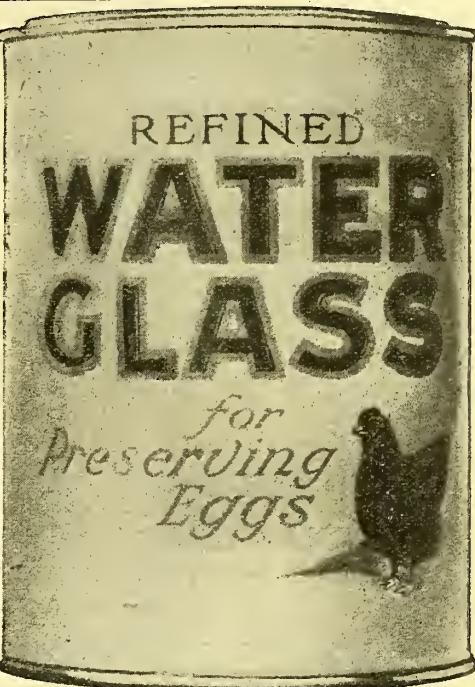
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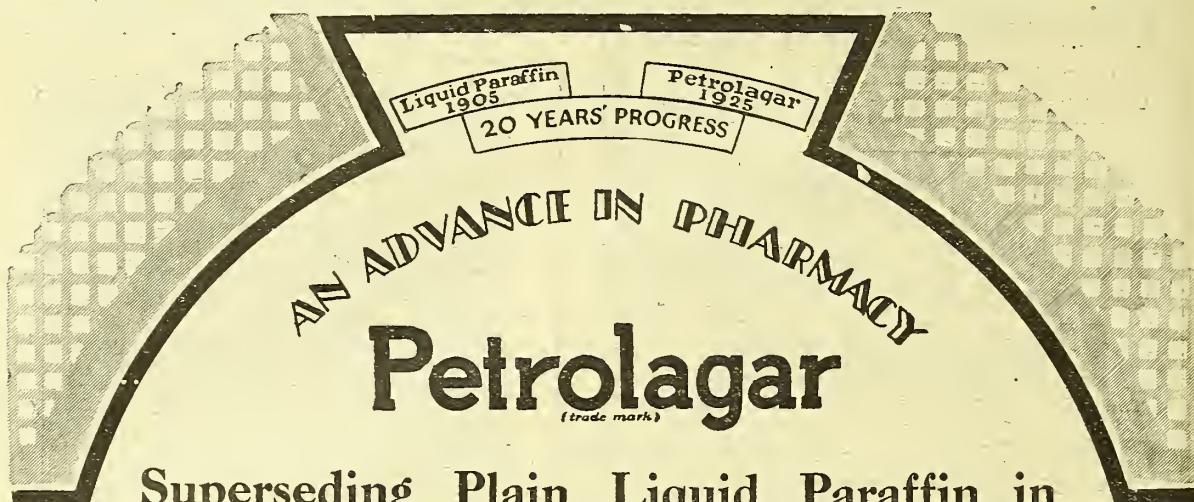
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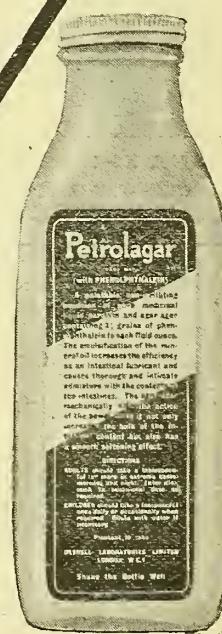
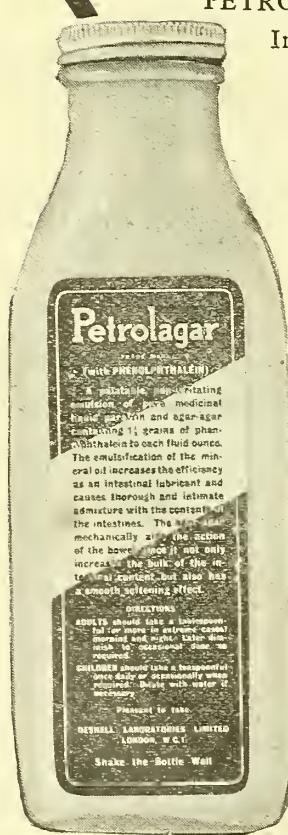
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THE CHEMIST AND DRUGGIST

SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

MARCH 7, 1925.

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on

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5.—CAMBERWELL GREEN.—Cash Retail Business, with N.H.I. Dispensing; returns, about £35 weekly, increasing; single-fronted shop, fitted in mahogany; new lease; scope for increased trading; price, £1,000.

6.—LONDON, E. (Main Road).—Neglected Business, situate in main road; returns, about £1,700 per annum; net profit, 25 per cent.; double-fronted shop; small house; very low rent; held on lease; price to be arranged.

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**Head Offices—Kimberley House,
Holborn Viaduct, London, E.C.1**
(and at 2 Bixteth Street, Liverpool)

PARKIN S. BOOTH, Accountant and Valuer
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1.—S. COAST.—Manufacturing Chemist Business, owning well-known proprietary line which makes a strong appeal to the public; turnover, 1922-23, £6,000; 1923-24, £7,000; large factory premises could be purchased for £3,000 or 7 or 14 years' lease could be granted; fuller particulars on application. (142)

2.—CHESHIRE.—Seaside town; old-established, well-fitted Pharmacy; Family and passing trade; good Photo, Optics and Fancy; stock and fittings at valuation; property could be purchased for £2,000, of which £1,500 can be obtained on mortgage; ground rent, £4 13s. per annum. Further particulars on application. (158)

3.—TOOTH PASTE.—Manufacturing rights in this country for product well known in Scandinavia; premises in London (City); particulars on application. (148)

4.—LIVERPOOL.—Well-appointed General Retail and Dispensing Business, in middle-class locality; good passing trade; returns, £40 p.w.; 10 years' lease, at £100 p.a. for first 5 years, rising to £120 p.a.; or freehold property could be purchased; fuller particulars on application. (150)

5.—SOMERSET.—Old-established Business, in country town; returns, £22 p.w.; 7 years' lease, at £40 p.a.; lock-up double-fronted shop; price £1,200, or offer. (144)

6.—S. DEVON.—Good-class ready-money Business in important town; returns, £30 p.w.; Kodak, N.H.I., etc.; double-fronted shop, with 8-roomed house; price, including freehold property, £2,600. (134)

7.—SOUTH DEVON.—Very old-established Business in residential district of busy town; returns, £34 p.w.; rent, £90; lease to be arranged; double-fronted, well-fitted shop and house with 7 rooms; side entrance, store, etc.; price £1,450. (154)

8.—ESSEX.—Popular seaside resort; prominent corner shop, with 7-roomed house, in main road; 14 years' lease, at £200 p.a.; returns, £1,800 p.a.; price £2,000, or near offer; terms, part down and balance by arrangement. (156)

9.—SOUTH COAST (Health Resort).—Good-class Chemist and Druggist, in best part of the town; new building; attractive shop fitted in oak; returns, about £35 p.w.; Kodak, N.H.I., etc.; dwelling accommodation with separate entrance. Price £1,500—property could be acquired. Fuller particulars on application. (125)

10.—LONDON, W.1.—Good Dispensing Business in populous suburb; 8 years' lease at £150 per annum; price for goodwill, fixtures and fittings £400, or near offer; stock at valuation, or, if preferred, stock can be removed. (114)

11.—LEEDS.—Unique offer for qualified man; turnover £15, as a Druggist sole monopoly of a 2-mile radius with 3,000 population; property also for Sale, about £1,000 in all; part premises sublet at 8s. 6d. p.w.; small living accommodation with premises; offers invited. Fuller particulars on application. (160)

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2.—CARDIFF.—Quick Cash Retail, in busy main road; good residential district; returns, £1,400, under management; plenty of scope; rent, £65; modern pharmacy (lock-up); well fitted, fully stocked; price £950; £400 can remain.

3.—HAMPSHIRE (Near Coast).—Very profitable light Cash Retail, with N.H.I.; in rapidly growing part of busy town; returns about £1,000; plenty of scope; low rent; long, valuable lease; well stocked; price £900, or offer.

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BROMLEY (KENT).—Retail Chemist's Business for Sale; good shop and dwelling-house; lease, 16 years; rent, £55; lease, goodwill and stock only £1,150. Carter, Law & Leech, Auctioneers, opposite North Station. Bromley.

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LIGHT Retail and Dispensing, in fashionable Midland resort; returns £2,260; capable of very great increase by more personal attention; large double-fronted shop, well fitted in mahogany; stock and fixtures at valuation, about £1,500; goodwill to be arranged; 14 years' lease; every enquiry courted; applicants enclosing references can have full details. 60/880, Office of this Paper.

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Sealed Tenders must be received not later than Saturday, 14th March, 1925, addressed to the Committee of Visitors, Severalls Mental Hospital, Colchester.

The Committee of Visitors do not bind themselves to accept the lowest or any Tender.

By Order,
H. H. GEPP,
Clerk to the Visitors.

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6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

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B IRMINGHAM.—Qualified Assistant, young, used to quick Cash Trade and N.H.I.; permanency; no Sunday or Bank Holiday duty. Apply, stating previous experience and salary required, to Izon, Chemist, High Street, Aston, Birmingham.

B IRMINGHAM.—Qualified Manager required for a Working-class Business; living accommodation; give fullest particulars in first letter. 4/400, Office of this Paper.

B IRMINGHAM.—Unqualified Jnnior wanted, either sex, at once; permanency; able to dispense under supervision; some Counter experience essential; outdoors; state fullest particulars first letter or apply personally; applications not answered in three days respectfully declined. Howes, Chemist, Selly Park.

B IRMINGHAM.—Qualified Manager required for Branch Dispensing and Photographic Business. Apply, stating salary required, experience, and references, to 7/3, Office of this Paper.

E AST COAST.—Wanted, young Lady Assistant, chiefly for Photographic and Toilet sales, but general knowledge of the business would be an advantage; no Sunday duty; weekly half-holiday. All usual particulars to Bell, Chemist, Felixstowe.

K INGSTON-ON-THAMES.—Qualified Assistant wanted for Dispensing, Counter, etc.; no Sunday or Bank Holiday duty; state full particulars, with salary required; personal interview preferred. Plomley & Alldis, 51 Fife Road.

L ANCASHIRE.—Busy manufacturing town; Qualified Manager required for working-class business. Interest in the profits offered to suitable applicant. House free. "Lancs," 7/2, Office of this Paper.

L ONDON.—Locum, qualified, capable, from April 6th for 1 week or fortnight, view to later booking; also relief each Thursday, 5 till 8, alternate Sunday, 6 till 8; Qualified, reliable Dispensing and Counter, for West-End; state experience and salary required. Goodall, 182, Ealing Road, Wembley.

L ONDON (near).—Capable Qualified Manager required immediately; single man preferred; excellent opportunity for a steady and reliable man anxious to make progress. 4/240, Office of this Paper.

L ONDON, E.C.—Qualified, experienced Assistant required, with knowledge of Photography. Reply, Shadforth Prescription Service, Ltd., 49 King William Street, E.C.4.

L ONDON, N.—Qualified Manager, single, required for Working-class Business; state age, experience and salary required; interest in the profits offered. 4/24, Office of this Paper.

L ONDON, N.—Assistant wanted; must be good Counterman, Dispenser, Window Dresser, and well up in Photography; qualified preferred, but good unqualified not objected to. Apply, stating age, height, experience and salary required. 5/25, Office of this Paper.

L ONDON, S.W.16.—Unqualified Assistant, age 20-35, required March 16th for new business; good Window-dresser and tactful Counterman; single; state age, height, experience, and salary required, with photo. 4/38, Office of this Paper.

L ONDON, S.W.—Qualified Assistant wanted; must be good Counterman, Window-dresser, and well up in Photography. Apply by letter, stating age, previous experience, etc., and salary required, to R. M. Wilkie, 28 Hildreth Street, Balham, S.W.12.

L ONDON, S.W.—Qualified Assistant (gentleman); must be a good Dispenser and Counterman. Apply, stating age, experience and salary expected, to 6/33, Office of this Paper.

L ONDON, W.—Smart Unqualified Assistant required immediately; must have good Counter and Photographic experience; permanent and progressive post; state age and salary required. 4/200, Office of this Paper.

M ANCHESTER.—Assistant, qualified, wanted; age not over 45; give full particulars in first letter. W. Pilling, Ltd., 192 Hyde Road, Ardwick, Manchester.

ROOTHERHAM.—Lady Junior, unqualified, with previous shop experience; easy hours; no Sunday duty; give particulars, age, height, salary, etc. 4/23, Office of this Paper.

SOUTH KENSINGTON.—Young Qualified Assistant; gentlemanly; accustomed to good-class Dispensing and Retail business, with Photography; good Counterman and Window-dresser essential; applications not answered in three days declined with thanks. W. B. Falding (P. Bolton), 5 Sussex Place, South Kensington, S.W.7.

WORCESTER.—Assistant, about 23, wanted at once for quick Family trade, Photographic, N.H.I. Usual particulars, salary and photo to 6/31, Office of this Paper.

A DVERTISER, wanting more leisure, requires Managing Assistant for Dispensing and Retail business, capable of considerable improvement, in good-class seaside town; one Junior kept; the position offers considerable future prospects; applications only invited from willing, steady gentlemen, of good experience and references. Kindly state age, salary, commencing salary, when free, and all particulars, to 7/11, Office of this Paper.

A SSISTANT required immediately; knowledge of Dispensing and Photography; lady or gentleman; state age, experience, salary required. Darby, Chemist, 102 Falcon Road, Clapham Junction, S.W.11.

A SSISTANT; unqualified; must be good Window-dresser, Dispensing, Photographic and Counter experience. Send photograph and full particulars to 60/834, Office of this Paper.

A SSISTANT, unqualified, 25 to 35, London, S.W., for brisk Cash trade; must be an experienced Window-dresser and Counter man with plenty of initiative and push; good progressive salary offered for ability, etc. In reply, please give full particulars of experience as to above requirements, with references, exact age, salary, etc., to 6/19, Office of this Paper.

A SSISTANT, age about 24, with Manufacturing experience of Toilets and Perfumery; initiative and business keenness essential and aptitude for correspondence advantageous; vacancy offers good prospects under personal supervision of Principals. State experience, age and salary to 60/886, Office of this Paper.

A SSISTANT, qualified, young, smart, good Salesman, capable Window-dresser; Birmingham; references required. Apply in first instance by letter to "Chemist," 12 Philip Victor Road, Handsworth, Birmingham.

A T ONCE.—Good man for Stock, Warehouse and Branch Orders; able to assist at Counter occasionally. Dix, Chemist, Pontypool.

A T ONCE, Junior; Qualified. Please state salary required and previous experience, to C. Woollons, 28 Kilburn Lane, W.10.

A T ONCE.—Single, qualified Assistant, able to manage, required for colliery district; outdoors; good Dispenser and Counter man; knowledge of Photography. Apply, giving full particulars of experience, salary required, etc., to G. A. Pickering & Son, Chemist, Royston, Barnsley.

B RANCH Manager; qualified; age 25-35; energetic and tactful Salesman, Window-dresser, with Photographic experience; good prospects. Send photo, with full particulars, to 60/885, Office of this Paper.

D ISPENSER (Male), Hall certificate preferred, wanted at once for country business; willing to take Counter occasionally; outdoors; please give full particulars of experience, age and salary required, with references. 4/40, Office of this Paper.

E XPERIENCED man, qualified, single, to manage a Local Branch; salary and commission. Apply, Hill & Co. (Chemists), Ltd., 62 Buttermarket Street, Warrington.

H ENRY HODDER & CO., LTD., Bristol, have vacancy for Qualified Manager of branch business; married man preferred; living accommodation on premises; business in middle- and working-class neighbourhood; hours 8.30 to 7, one evening weekly rotas duty to 8, Saturdays 8, Wednesdays close 1; satisfactory references essential. Apply, with full details, to Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

J UNIOR Assistant wanted, unqualified, for the Counter; give age, height, experience, salary required; state if disengaged. Wands, 12 Haymarket, Leicester.

J UNIOR or Improver wanted, at once, for about 2 months or possibly longer; must be used to quick Counter trade and able to assist Dispensing. Full particulars to Lester & Williamson, Chemists, Great Heath, Coventry.

J UNIOR Assistant required in good-class business, for Counter, Window-dressing, and Stock; outdoors; qualification not essential. T. H. Foden, King's Heath, Birmingham.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

L ADY Assistant required; must be a good Window-dresser, L assist with sales; good-class up-to-date Pharmacy; state height, experience, references, salary required. Stirlings, Ltd., 17 Clarence Street, Kingston-on-Thames.

L ADY Dispenser, qualified, immediately; assist usual Counter duties; working-class district; no Sunday; Wednesday, 1 p.m.; full particulars, stating salary. Porter & Son, Station Street, Hugglescote, Leicester.

M ALE Assistant, 20-25, for modern Pharmacy; good knowledge of Dispensing and Photographics (practical) essential; fullest particulars and photo (returned), when disengaged, in first letter. Fry, 157 Albert Road, Southsea.

M ANAGER wanted immediately for well-known market town in Essex, with living accommodation, must be accustomed to good class family trade, well up in Toilet lines, experienced in Photographic work. Full particulars, with photo, to 59/860, Office of this Paper.

M ANAGER, Qualified, wanted for Branch in industrial neighbourhood in Oxford; good opening for energetic young man who is a business builder; highest references indispensable; please state experience, age, height, references, salary, and enclose photo. Oxford Drug Co., Ltd., Dispensing Chemists, Oxford.

M ANAGER, qualified, for business in working-class district; M Counter and N.H.I.; good prospects for enterprising man; highest references essential. 6/13, Office of this Paper.

P HARMACIST (ex-Service) required for Hospital Dispensary in London. Please send particulars of experience, age, war service, salary required, with copies of testimonials, to 59/857, Office of this Paper.

Q UALIFIED Assistant wanted (Male) for good-class business; Q must be accurate Dispenser. Please send particulars of age, height, experience, and salary required, to F. A. Lund, 94 Westborough, Scarborough.

Q UALIFIED Chemist wanted, capable of developing an entirely new Optical department; capital main read position, where work is frequently turned away; every assistance will be given, including window-show advertising, etc.; Proprietor has up-to-date trial case and every Optical appliance, but no time to attend to the work; remuneration, by way of small salary for very light duties as a Chemist and half the profit on the Optics. Full particulars, salary, etc., to 8/230, Office of this Paper.

Q UALIFIED Person to act as Superintendent of a very small Dispensing Business in a select holiday resort; very light duties and easy hours; the position would suit an elderly or disabled person; comfortable home on premises, or outdoors if preferred. Please state full particulars and salary required to 8/23, Office of this Paper.

R EQUIRED immediately, for a few weeks, a gentlemanly capable Assistant; well up in Dispensing and accustomed to a high-class business. Mr. J. W. Webber, Ph.Ct., 202 High Road, Chiswick, W.4. Phone, Chiswick 229.

S OUTHALLS, 17 Bull Street, Birmingham, have an opening for a qualified gentleman in their Dispensing department; must be experienced; good salary to right man; apply, with full particulars, including copies of references; one able to start 23rd inst. preferred; applications unanswered in ten days respectfully declined.

U NQUALIFIED Assistant wanted March 23rd; outdoors; U must be a quick and accurate Dispenser, and used to Photographic trade; state experience, salary, references. Hallatt, Chemist, 387 Attercliffe Common, Sheffield.

U NQUALIFIED Assistant (not over 30), 8 or 6 weeks from March 30th (outdoors); first-class references essential; very quick drug store, middle and working-class trade; applicants answered within three days if considered suitable. Miles' Popular Pharmacy, Swindon.

UNQUALIFIED Assistant wanted at once for brisk country business; experienced Dispenser and good Counterman; not under 25 years of age; please give full particulars of previous experience, age, salary required, etc., with references. 4/500, Office of this Paper.

YOUNG lady required for Photographic Counter, experienced and must possess sales-making ability. Clarke's, Chemist, Newport, Mon.

WANTED, Lady Assistant (qualified preferred) for small seaside resort, E. Yorks. Apply, stating experience, salary required, and latest testimonials, to Twigg, Chemist, Withernsea.

WANTED, young Pharmacist with literary ability, possessing competent knowledge of French and German. 60/874, Office of this Paper.

WANTED early, an experienced Male Assistant, about 24, tall, for Dispensing and Counter, with reliable references; state full particulars in first letter of age, height, and salary, outdoors; also shortly required for the season to October an additional Assistant. Apply, James Hewlett, Bailey & Co., Chemists, Margate.

WANTED at once, a Qualified (Hall) Male Dispenser and Book-keeper; young, quick and energetic; good references essential; good salary. Apply to Drs. Somerville & Hallows, Leek, Staffordshire.

WANTED, an Unqualified Assistant; must have had a good and varied experience in Dispensing and Counter work, with some Photography; age not under 27 or 28; outdoor; kindly give all particulars, with addresses of references. 6/20, Office of this Paper.

WANTED immediately, Qualified Lady (Minor) for small Dispensing business, London, S.E.; also Locum (Minor), either sex, 3 or 4 weeks; first-class references and accuracy essential; write experience, salary, etc. 5/27, Office of this Paper.

WANTED, Qualified Dispenser and Book-keeper (female), outdoor, by doctor (Sussex); must be quick, accurate and neat in her work. State age, experience and salary to 5/13, Office of this Paper.

YOUNG lady required for Toilet Counter exclusively; experienced, and must possess sale-making ability. Clarke's, Chemist, Newport, Mon.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

MANCHESTER.—Man to look after small Boiler and make himself generally useful in Wholesale Drug Laboratories; one with a slight knowledge of Tablet Making preferred; state age, experience, and wages required. 4/29, Office of this Paper.

ADVERTISING.—Chemist, with copy-writing or literary experience, required in Advertising Department of large London Firm of Manufacturing Chemists; Minor or Major qualification. State experience, age and salary to 60/882, Office of this Paper.

ASSISTANT, age about 24, with manufacturing experience of Toilets and Perfumery; initiative and business keenness essential and aptitude for correspondence advantageous; vacancy offers good prospects under personal supervision of principals. State experience, age and salary to 60/881, Office of this Paper.

CHRYSTOID (CHEMISTS), LTD., Specialists in all kinds of Packed Goods, invite applications from Representatives working Midlands, South Coast, Wales and Scotland; please state definitely territory covered, references, terms, in first letter; other non-competing lines not objected to. Reply to Gower Street, Bootle, Liverpool.

REPRESENTATIVE required to call on Chemists, preferably able to drive car. Give references, salary required; say when disengaged. C. A. Critchley & Co., 19 Cardwell Place, Blackburn.

REPRESENTATIVES calling on Doctors and Chemists required by Wholesale Druggists in London district and Eastern Counties; previous experience of ground essential. Reply, with full particulars, age, experience and remuneration required to 59/854, Office of this Paper.

REPRESENTATIVES required by old-established house to call on Chemists in N.E. England, the Midlands and South Wales; not less than 5 ft. 10 in. height, of good address and appearance; fidelity guarantee required; preference given to qualified men. Write, in confidence, to "Advance," c/o F. Wilson, 101 Hatton Garden, E.C.1.

REPRESENTATIVES required by well-known Sundries House to carry Chemists' Sundries on 12½ per cent. commission basis; must have sound connection Retail for whole of East and North-East Coast, Welsh district and Scotland; only real live Salesmen need apply. Full particulars, 6/35, Office of this Paper.

REQUIRED by well-known Bottle Importers, reliable man calling on Chemists, Druggists, Perfumers; Lancashire and Scotland; commission basis; resident or otherwise; good man well supported with sound connection, old customers requiring personal visits. "A. B.," 60/876, Office of this Paper.

REQUIRED.—Representatives to open up and extend for highly competitive Toilet House on 15 per cent. commission basis, in the following districts—North and inner London, South Midlands, East Coast, and West Country; old and sound connection desirable. 5/9, Office of this Paper.

REQUIRED.—Representatives working London Retail and Stores, Lancashire, Yorkshire and Wales, for Proprietary, about to be nationally advertised; commission only; special introductory offers make this an attractive proposition for real Salesmen with first-class connections; no samples necessary. 6/12, Office of this Paper.

TRAVELLERS required; must have good connection amongst Hairdressers, Perfumers and Chemists; London and Provinces; salary and commission. Write, stating full particulars, to 281/36, Office of this Paper.

WHOLESALE Druggists' Sundries House requires experienced Representatives, resident on the Lancashire and Yorkshire, and North Wales territories, with connections, and preferably having own car; salary and commission. 6/10, Office of this Paper.

WHOLESALE Druggists in Manchester district require at once an experienced Wet Counter Hand, with previous experience in a similar capacity and having a good general knowledge of accurate and methodical filling of orders, stock-keeping, etc. Apply, stating age, experience and wages required, to 60/883, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

BOMBAY.—Qualified Assistant; thoroughly experienced in first-class trade and capable of assisting in management and details of an important company; age 25/30, single preferred; three years' agreement; passage paid out and home; increasing salary commencing Rupees 500 (£37 10s.) per month, with free quarters; permanent engagement is desired. Full particulars to 60/878, Office of this Paper.

WEST AFRICA.—An English Company have a vacancy early in April on their Nigerian staff for an unmarried Assistant with the qualification of the Pharmaceutical Society of Great Britain; age not under 27 or over 35; one accustomed to high-class Pharmacy necessary; Optical experience preferred; salary £350 per annum, servant allowance, free quarters; first-class passage out and home; engagement 2 years (20 months on the coast); full pay on leave; appointment made by directors in this country; expenses paid for interview when required. Applications, in writing only, giving experience, references and photograph, to the Secretary, West African Drug Co., Ltd., 6 Water Street, Liverpool.

SITUATIONS WANTED.

RETAIL.

[HOME.]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A. —UNQUALIFIED, 29, married, ambitious, capable, requires permanency; able to undertake sole control; not afraid of work; highest references; Manchester or district preferred. 6/30, Office of this Paper.

A.A. —FULLY experienced, Qualified Manager (33), married, desires change; highest references; all branches; position where practical business man will be appreciated; Southern preferred, but not essential. Apply "Confidential," 2/39, Office of this Paper.

A CAPABLE Pharmacist (27), 6 ft., good knowledge Optics, desires change where more Optical work is done. "Chemist," 5/18, Office of this Paper.

A FIRM of Chemists wish to recommend an Assistant for a position of trust as Manager or otherwise; exceptionally capable, competent and absolutely reliable. The fullest information will be given with pleasure on application to 5/23, Office of this Paper.

A TALL, energetic middle-aged Assistant, experienced all branches, unqualified, married, seeks engagement where reliable service is appreciated; Midlands preferred; good references. "Chemist," 9 Chase Road, Brentwood, Essex.

A CTIVE, reliable Locum, or permanent, disengaged; 20 years' London experience; unqualified. Chemist, 11 Kingsdown Road, Holloway, N.19.

A PPRENTICE.—Youth of good appearance (17½) seeks apprenticeship in good-class Pharmacy; London or suburbs; in or outdoor; time for study; passed Senior College of Preceptors' Examination. P.C.B. 58/11, Office of this Paper.

A S Locum or Permanency; stock-taking, pricing; moderate terms; good references; experienced. "Chemical," 10 Frederick Place, Clifton, Bristol.

A SSISTANT (unqualified); all-round experience; would manage branch; used to busy trade; good reference. P.C.B. 58/10, Office of this Paper.

A SSISTANT (unqualified) seeks post; age 30; capable Dispenser and Counter hand; not afraid of work; disengaged. Apply 4/r8, Office of this Paper.

A SSISTANT open for re-engagement; 5 years' experience; last 12 months in West-End; unimpeachable references. Address, R. G. S. Folkard, 11 The Grove, Clacton-on-Sea.

A SSISTANT, Qualified, 6 years' first-class experience, requires a situation in London; Locum or permanent; accustomed to Dispensing, Counter and Management; West-End references. Gladys Palmer, 18 Sutherland Terrace, S.W.1.

A SSISTANT, thoroughly capable, desires immediate Locum or permanent engagement; highest references; Unqualified. R., 131 Mount View Road, N.4.

A SSISTANT, unqualified, 28, desires situation Leeds or Bradford district; Dispensing, Counter, Window-dressing. 186 Kirkstall Road, Leeds.

A SSISTANT, 22, seeks berth (London or South preferred); a good all-round experience; disengaged. Russell, 49 Edward Street, Brighton.

A SSISTANT (32), unqualified, single, Counter, Photographic, Window-dressing, Dispensing, good references, desires permanency in London or N.W. suburbs. 7/8, Office of this Paper.

A SSISTANT; qualified; first-class experience; London or suburbs; good references; outdoors. "Chemist," 7/13, Office of this Paper...

A SSISTANT; 4 years; desires berth with experience; Photography, D. & P., etc.; salary moderate. 5/21, Office of this Paper.

A SSISTANT (35), married, unqualified, active, not afraid of work, telling Window-dresser, used to brisk trade, Photographic, etc., seeks situation where initiative and push and go will be appreciated; can manage throughout; held similar position; 9 years last two situations; London or suburbs. 6/14, Office of this Paper.

A T liberty; experienced Locum; well recommended; competent, reliable worker; moderate terms. "Chemicus," 239 Camberwell New Road, S.E.5.

BACHELOR, middle-age, abstainer, active, exceptionally clean, 40 years' experience, good writer, passed all subjects Minor except Botany; anywhere; country preferred. "Energetic," 38 Shaw Heath, Stockport.

B RANCH Manager, qualified, 15 years' experience; references sound; unblemished record; satisfaction assured. "Vedol," 12 High Road, Stamford Hill, N.15.

DISPENSER, Female, 25, Hall, 7 years' experience, desires post; preferably with Doctor. 5/1, Office of this Paper.

DISPENSER-BOOK-KEEPER, qualified, experienced, desires post with Doctor; disengaged now. Write "E," 59 Cecile Park, London, N.8.

EDUCATED Gentlewoman desires post; Hall Certificate; capable and thoroughly experienced. 5/31, Office of this Paper.

H ALL Dispenser, experienced, seeks part-time post; evening work preferable; excellent testimonials. "Statim," 60/877, Office of this Paper.

JUNIOR requires position; Sheffield or district; quick cash, retail; N.H.I. experience; good references. Aldous, 251 Gleddess Road, Sheffield.

L ADY Dispenser (Hall); Institution or Doctor; excellent experience and testimonials. 2 Selwyn Road, Upton Manor, London, E.13.

L ADY Pharmacist (27) desires post; London or near; good experience; disengaged. Apply 4/13, Office of this Paper.

L ADY Dispenser (qualified) requires post; experienced. 4/22, Office of this Paper.

L ADY desires post as Assistant in London; tall, well educated, just completed four years' apprenticeship in leading house in Irish city; sound knowledge of various branches. P.C.B. 58/22, Office of this Paper.

L ADY Dispenser (Hall) requires post Doctor, Hospital, Institution; three years' experience; moderate salary. Allanson, Cavan Road, Redbourn, Herts.

L ADY, unqualified, experienced, Retail, etc., disengaged. Miss Farrer, 11 Queen Street, Margate.

L ADY Assistant desires post; Counter, Photographic and Window-dressing; 7 years' experience. Davis, 299 Upper Richmond Road, E. Sheen.

L ADY Dispenser (Hall) requires permanent post, anywhere; Doctor or Institution; excellent experience; book-keeping; testimonials. 65 Mayfair Avenue, Ilford, Essex.

L ADY Dispenser (Hall), experienced, desires post with Doctor or Chemist; book-keeping, typing, etc. 90 Bexley Terrace, Whitstable, Kent.

L ADY Dispenser (Hall) requires post immediately; Counter, work; good worker; moderate salary; disengaged. Hordle, 41 Augustine Street, Taunton.

L ADY Assistant, unqualified, desires post in London; Counter, Photographic and Window-dressing; 8 years' experience. 6/25, Office of this Paper.

L OCUM, qualified (24), now booking for the season; competent and reliable. Muriel Price, Eyton, Priesthills Road, Hinckley, Leicestershire.

L OCUM or Assistant, unqualified, middle-aged, thoroughly experienced, steady, abstemious, reliable; highest character; gentlemanly; disengaged 23rd. "Chemist," c/o Dr. Furnivall, "The Shack," Welwyn Garden City, Herts.

L OCUM; qualified; booking engagements for season; excellent references; abstainer. 122 Edge Lane Drive, Liverpool.

L OCUM; qualified; disengaged until June; over 20 years' first-class London experience; highest references. Parker, 8 Trinity Place, Hastings.

L OCUM, qualified, abstainer, reliable, elderly, long experience, has unfilled weeks from March 16. Thomas, 145 Kensington Park Road, S.E.11.

L OCUM; disengaged; now booking dates; good references. Apply "T," 7/130, Office of this Paper.

M ANAGER (28), qualified, married, desires management where scope is offered for honest service, industry and enterprise; well up in Salesmanship, Window-dressing and Photography. F. H., 208 West Street, Erith.

M ANAGER, Assistant; registered; thorough Dispensing, Prescribing, Photography, Optics, tall; town or S.E. country; London and country experience; middle-age; Continental work. Write, "Opus," 116 Mantilla Road, S.W.17.

M.P.S., YOUNG, energetic, requires position as manager or Assistant; Lancs or Yorks preferred; 8 years' experience; well recommended. Manager, c/o Marchant, Chemist, Potton, Beds.

M.P.S. (26), tall, good Retail, Dispensing, N.H.I., Photographic, Agricultural, and Prescribing experience; excellent references; disengaged March 23rd. "Qualified," 29 Long Street, Devizes, Wiltshire.

M.P.S., elderly (52); Manager, Superintendent; single; disengaged; active; quick Dispenser. "Chemist," 34 Packington Street, Islington, N.1.

M.P.S., 31, now managing busy branch, seeks change; of early marriage, a house would be appreciated; experienced, tactful, abstainer; Photography; undeniable references. Apply 5/35, Office of this Paper.

PART time; qualified; active; good all-round experience; studying Optics. "Chemist," 19 Ambler Road, Finsbury Park, N.4.

QUALIFIED, 23, tall, abstainer, high-class Dispensing, Counter and Photographic; experience West-End, seaside and suburban; disengaged. Oakley, 31 Knights Park, Kingston-on-Thames

QUALIFIED M.P.S., experienced, as Manager, or Dispenser to Doctor; London or near, or succession entertained. "Capital," 7/16, Office of this Paper.

QUALIFIED; 29; tall; active; London experience; highest references; abstainer; married. "M. C." 5/30, Office of this Paper.

QUALIFIED; 28; good all-round experience; excellent references; disengaged one month; West Country preferred. 6/27, Office of this Paper.

UNQUALIFIED, middle-aged, married, tall, active; good references; disengaged; would accept post as Manager of Drug Store. P.C.B. 58/23, Office of this Paper.

WANTED, Apprenticeship, retail (London), by young Lady (Hall); some dispensing experience. Reply, "Z." 4/37, Office of this Paper.

YOUNG lady, aged 22, completing 4 years' apprenticeship in a good-class Dispensing Photographic and Veterinary Chemist; disengaged April 6th. Ada Edwards, Beehive Stores, Rhosymedre, near Wrexham.

WHOLESALE.

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ADVERTISER, 13 years' experience, Manufacturing, Wholesale and Retail, desires position as Office Manager, Chief Clerk, Accountant, or Accountant-Secretary; qualified. "Vic," 6 West Bank, Stamford Hill, N.16.

A S Traveller; home or abroad; 33; good knowledge Tamil and Malay; sound experience Drugs and Chemists' Sundries, also 3½ years' rubber planting experience. M.L. 2811/24, Office of this Paper.

B.S.C. (Hons. Chem.), 26, educated Public School, University, desires post in works on Research, Plant or Analytical; good knowledge Chemistry, Physics, French, German, Book-keeping. M.L. 4467/22, Office of this Paper.

B.S.C., Chemistry and Physics, 26, War Service, desires post as Junior Chemist in Laboratory or Works; knowledge of French and German, also of telegraphy and telephony, and an expert wireless operator; willing to accept nominal salary until worth is proved. 2636/24, Office of this Paper.

MANAGER or Assist. Sales or Factory, Town Representative, either excellent credentials. 8/22, Office of this Paper.

PERFUMER, Toilet Preparations and Toilet Soap maker requires situation; at home or abroad. 2/33, Office of this Paper.

PILL and Tablet Maker requires situation; experienced; good references. Boulckley, "Red House," Temple Grafton, near Leicester, Warwickshire.

PUBLIC School Youth (tall), General Schools Certificate, Honours Chemistry, desires post, Learner-Assistant, with Chemists (Wholesale or Pharmacy); small commencing salary; excellent testimonials. "W." 47 Alexandra Road, S.E.19.

TRAVELLER, excellent connection Chemists, etc., West of England; wishes represent reputable House; expenses and commission; all-round experience; qualified. 6/1, Office of this Paper.

WORKS Chemist, 26, B.Sc. Technology (Manchester); French and German; 2 years' experience as Assistant to Pharmacist. 5800/23, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

QUALIFIED Chemist-Optician seeks position Overseas; view to purchase share later; capital, £1,500; healthy climate. "F.S.M.C." 6/17, Office of this Paper.

MISCELLANEOUS.

10s. for 60 words; 1s. for every additional 10 words or less.

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CHEMIST'S Fittings (second-hand).—Ranges of Drug Drawers, Shelving, All Glass Counters, Centre Cases, Window Fittings of all descriptions. D. MATTHEWS & SON, Chemist Fitters, 14/16 Manchester Street, Liverpool.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.2.

£144. SET of complete mahogany Shop Fittings, 7 ft. hand-Counter with cases in front, plate-glass Counter Case, two nests of Counter Drawers, 12 ft. Drug Fitting, Perfume Case and Desk, all-glass Counter; can easily be adapted. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.1.

LIMITED Companies formed not only for Chemists and Opticians, but for any trade. Established 1905. Books, seal, etc., are included in quotation. Advice free. A. B. SLACK, 15 Christ Church Avenue, West Didsbury, Manchester.

SMALL Tablet Making Plant, in part or as a whole, comprising 2 Stokes' "O" Machines, 5 h.p. Hornsby Gas Engine with Pulleys, Shafting, etc., 4 Drying Cupboards and Trays; all in excellent condition; can be seen running in London. Offers for quick clearance to P.C.B. 58/25, Office of this Paper.

TERMINATION of Business owing to death of Proprietor; Optician's Stock offered for immediate sale, including Revolving Optical Chair upholstered in leather, G.F. Frames, Astigs., Rimless Mounts, Retinoscope, Optical Lantern, Coloured Show Prisms, Show Lenses, Eyeglass Cords, Ear Chains, Aluminium Cases, Plus and Minus Lenses, Rimless Lenses, Goggles, Shell Frames, Microscope by Arnold, London, enclosed in glass case. Cussons, Chemist Optician, Dorchester.

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FOR DISPOSAL.

7 lb. POT IODID.; 12/6 Formalin Vaporiser, new; 4 oz. each Salol, Salicin, Caffein, Cit.; what offers? "Retiring," 6/22, Office of this Paper.

WANTED.

PHARMACEUTICAL Books wanted; send priced list. Gower, Bookseller, 41 Voltaire Road, Clapham.

MATERIA MEDICA SET, suitable for Minor examination. Beverley, 4 Stafford Road, Bournemouth.

SECOND-HAND INVALID CHAIR, self-propelling, in good condition. Cowan, Chemist, Thurso, Scotland.

MIXER, small, wanted; capacity about 28 lb.; either hand or power. Worcestershire Fertilizer Co., Ltd., Stoke Prior, Bromsgrove.

FITTINGS AND STOCK, or part of Chemist's Shop wanted. Full particulars and price required, "J. H." 19 Kennington Terrace, S.E.11.

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(Late Manager of the Chas. H. Phillips Chemical Co.) begs to inform the Trade that he has taken over the sole agency for:

THE AMERICAN APOTHECARIES COMPANY (manufacturers of "SALVITÆ")
and for DOLS VOLATALISE FLANNEL for LONDON and DISTRICT

Full particulars as to prices & supplies can be obtained from: 14 HENRIETTA STREET, COVENT GARDEN, W.C.2